

URBAN DESIGN

PLANNING & ENVIRONMENTAL STUDIES

URBAN DESIGN

LANDSCAPE ARCHITECTURE

FINE ART

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# LANDSCAPE ARCHITECTURE PORTFOLIO

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LANDSCAPE ARCHITECTURE

PLANNING & ENVIRONMENTAL STUDIES

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**ACADEMIC PROJECTS**

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WORLD EXPO 2025 - JEDDAH

LANDSCAPE ARCHITECTURE

LANDSCAPE ARCHIT



SURVEY

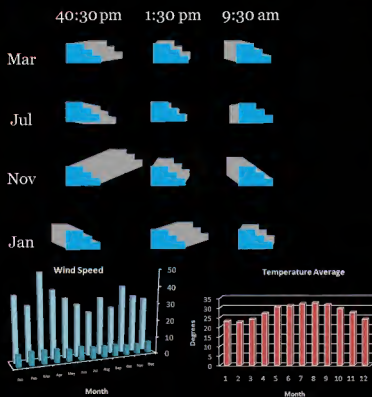
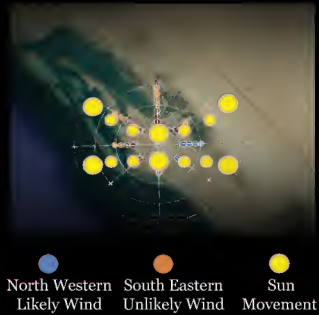
SITE LOCATION



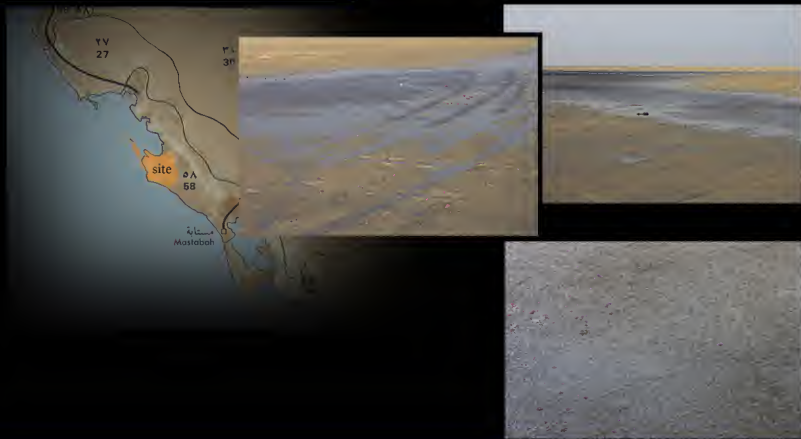
SITE ACCESS ROAD



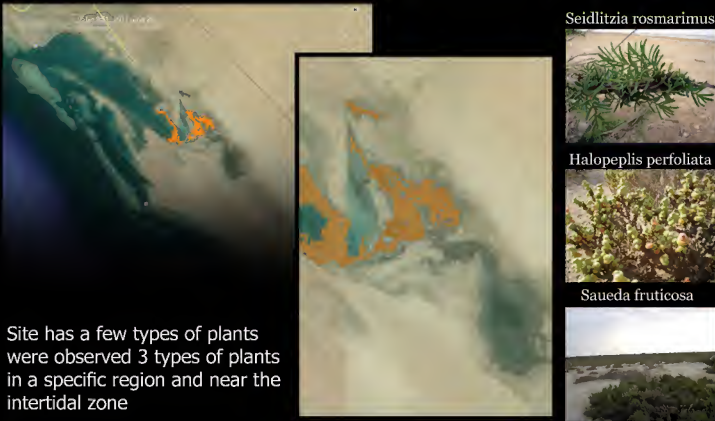
CLIMATE ANALYSIS



SOIL ANALYSIS



VEGETATION ANALYSIS



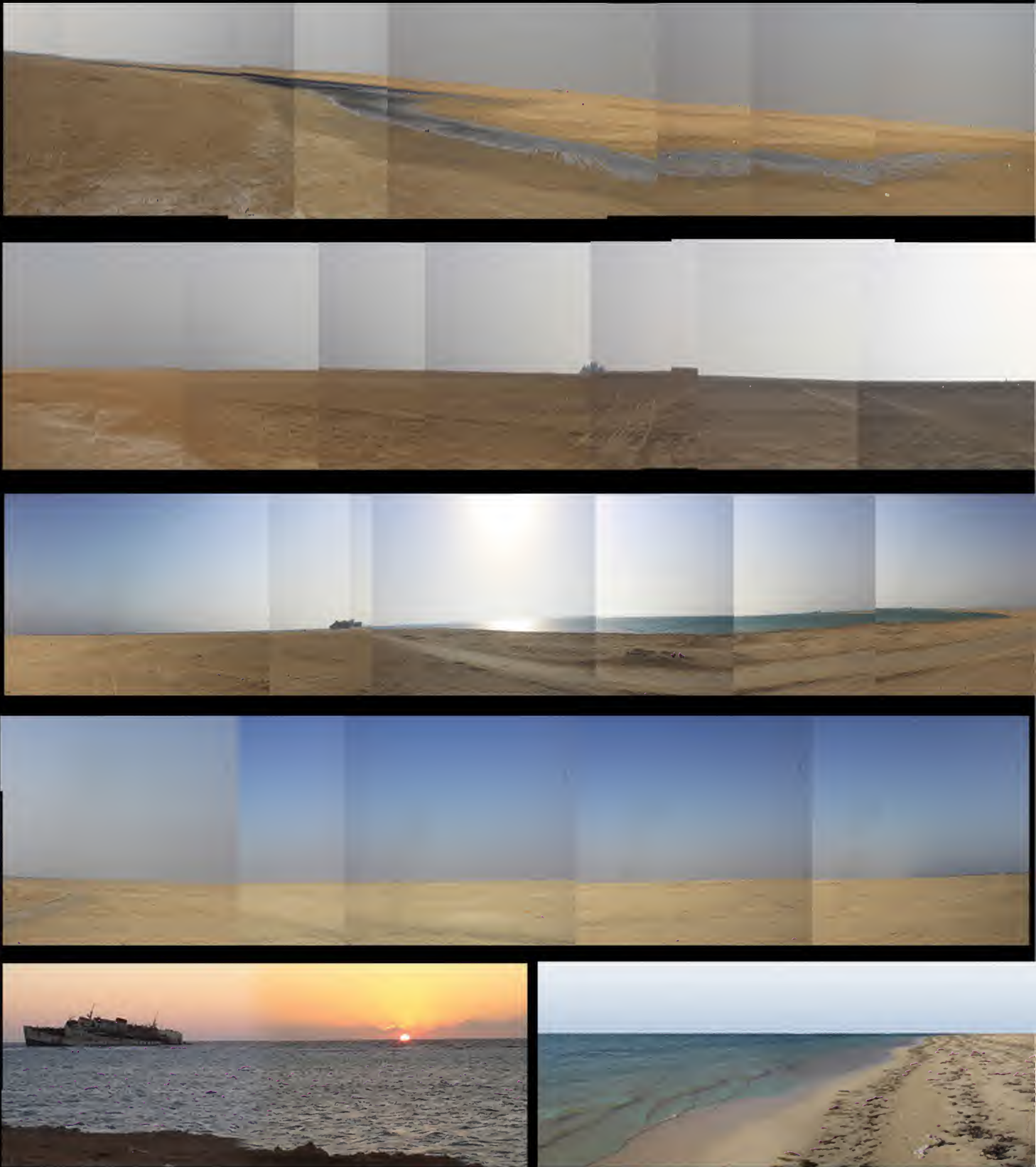
WILDLIFE ANALYSIS



LANDSCAPE UNIT



VISUAL STUDY





## ANALYSIS

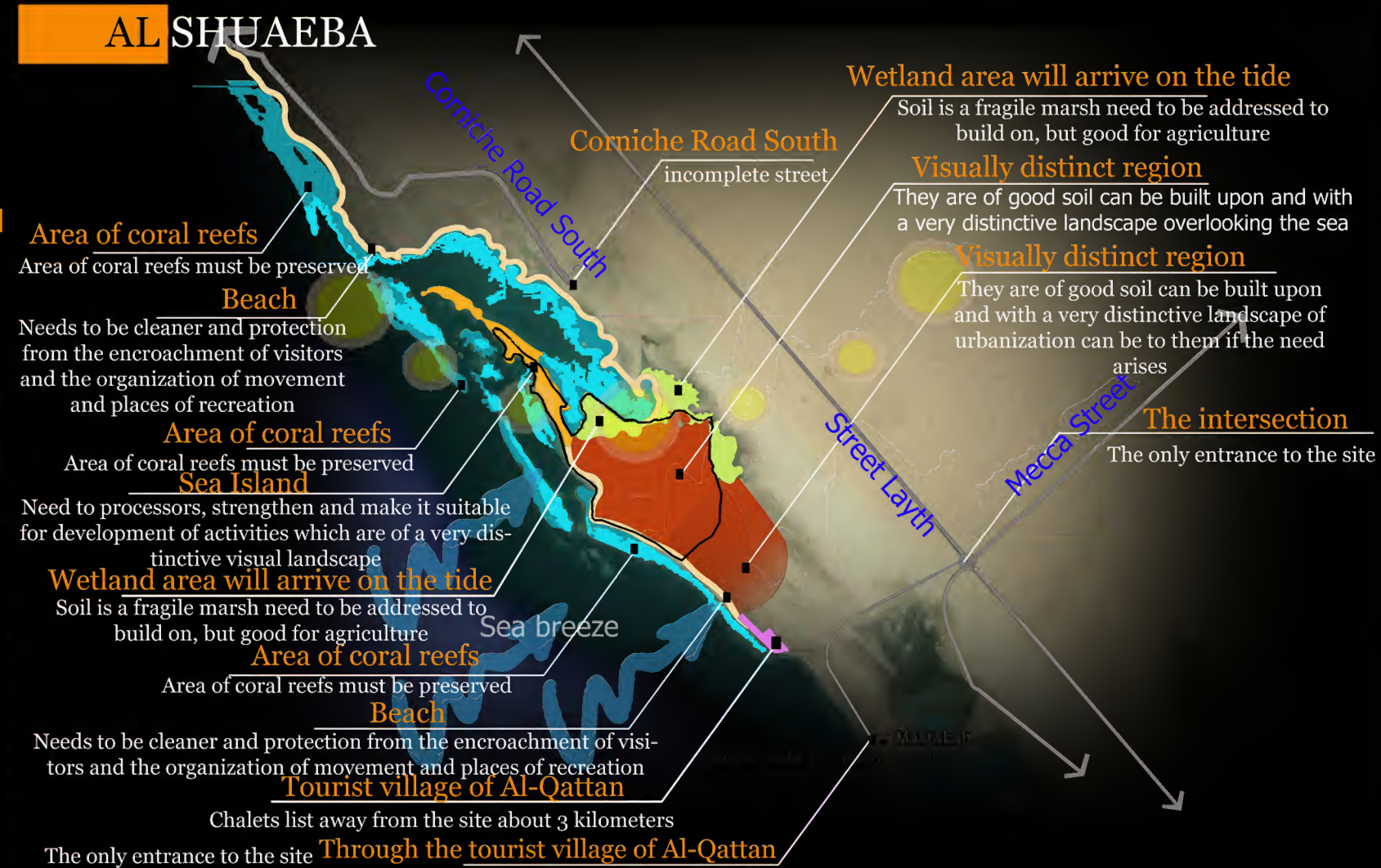
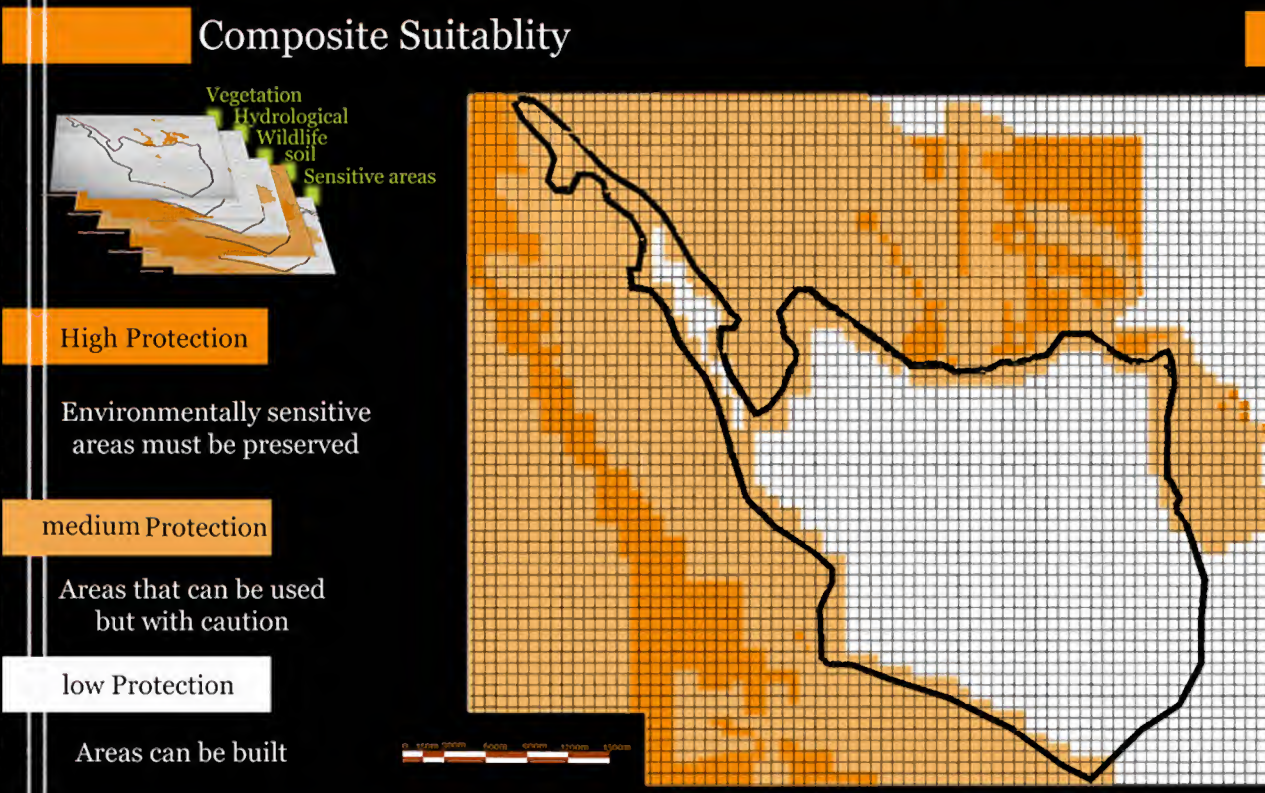
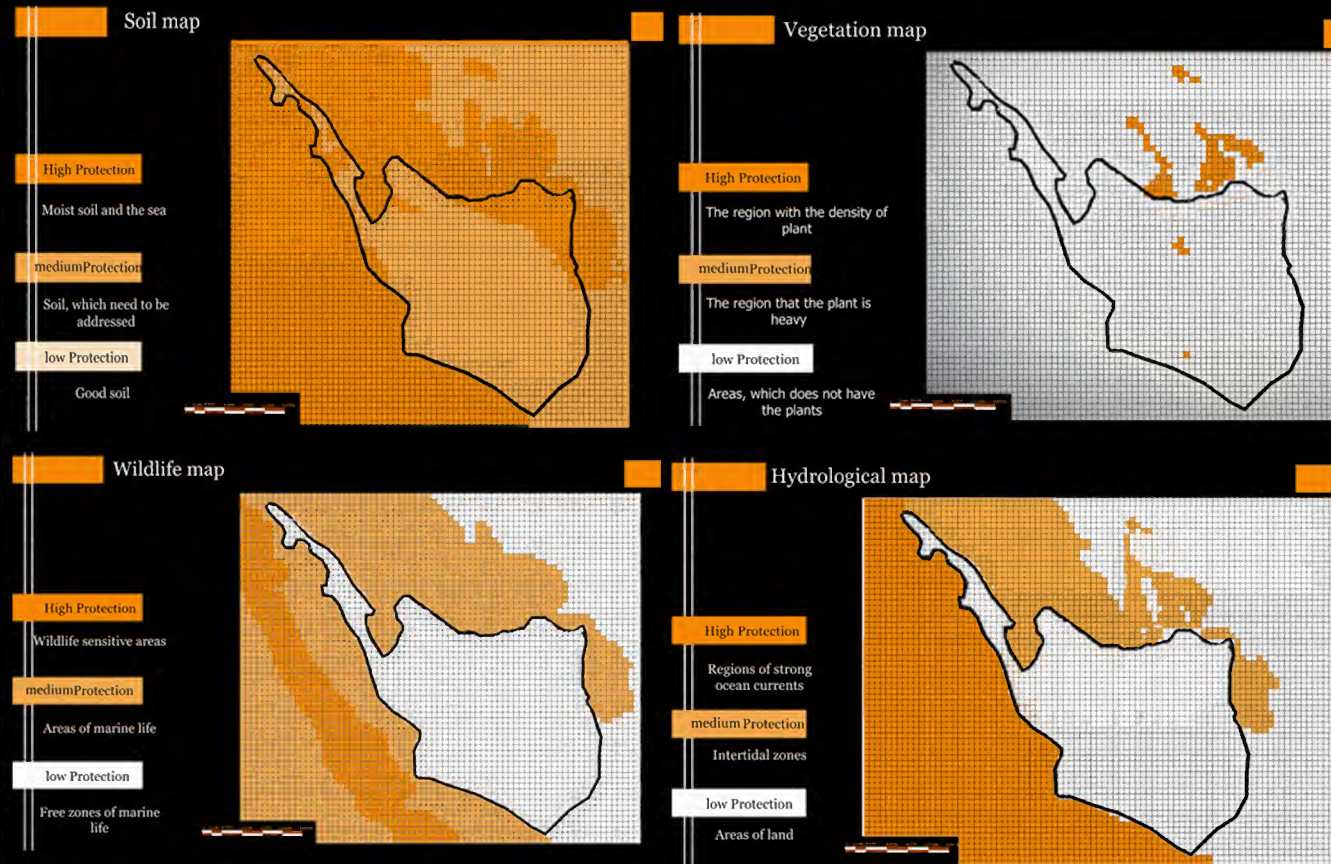


Image of the site	OPPOETUNITIES
	Difficulty entering the site, leading to the long distance from the site
	Lack of clean sandy beach and the reason many visitors and infringements on the beach
	Some areas of the site with poor soil need to handle
	The presence of areas with the tide, which affects soil
	Site with high soil salinity
	There are sea currents, severe in some coastal areas
Image of the site	PROBLEMS
	And a sandy beach on the extended length of the site
	Site with a fantastic visual feature overlooking the sea
	Site by strong winds
	Site has an opportunity to invest and the formation of a new village
	Near the site of many areas of space
	The presence of the site near the intersection of two roads are important through the lion and the road to Mecca

## GUIDELINES

- To maintain and clean sandy beach and identify its uses
- Preserve the coral reefs which are a feature of the site features
- Exploitation of distinctive visual side overlooking the sea
- Take advantage of the sites around the site in the development of the project
- Maximum benefit from the movement of wind and solar energy, which is characterized by the Site
- Facilitate access to the site of the main road by Laith Jiddah
- Address the land and make it suitable for construction and agriculture
- Benefit from the trend of marine energy generation



## CONCEPTUAL MASTER PLAN

### Conceptual Master plan SITE -1

#### Historical times to configure the globe

PERMLAN  
225million years ago



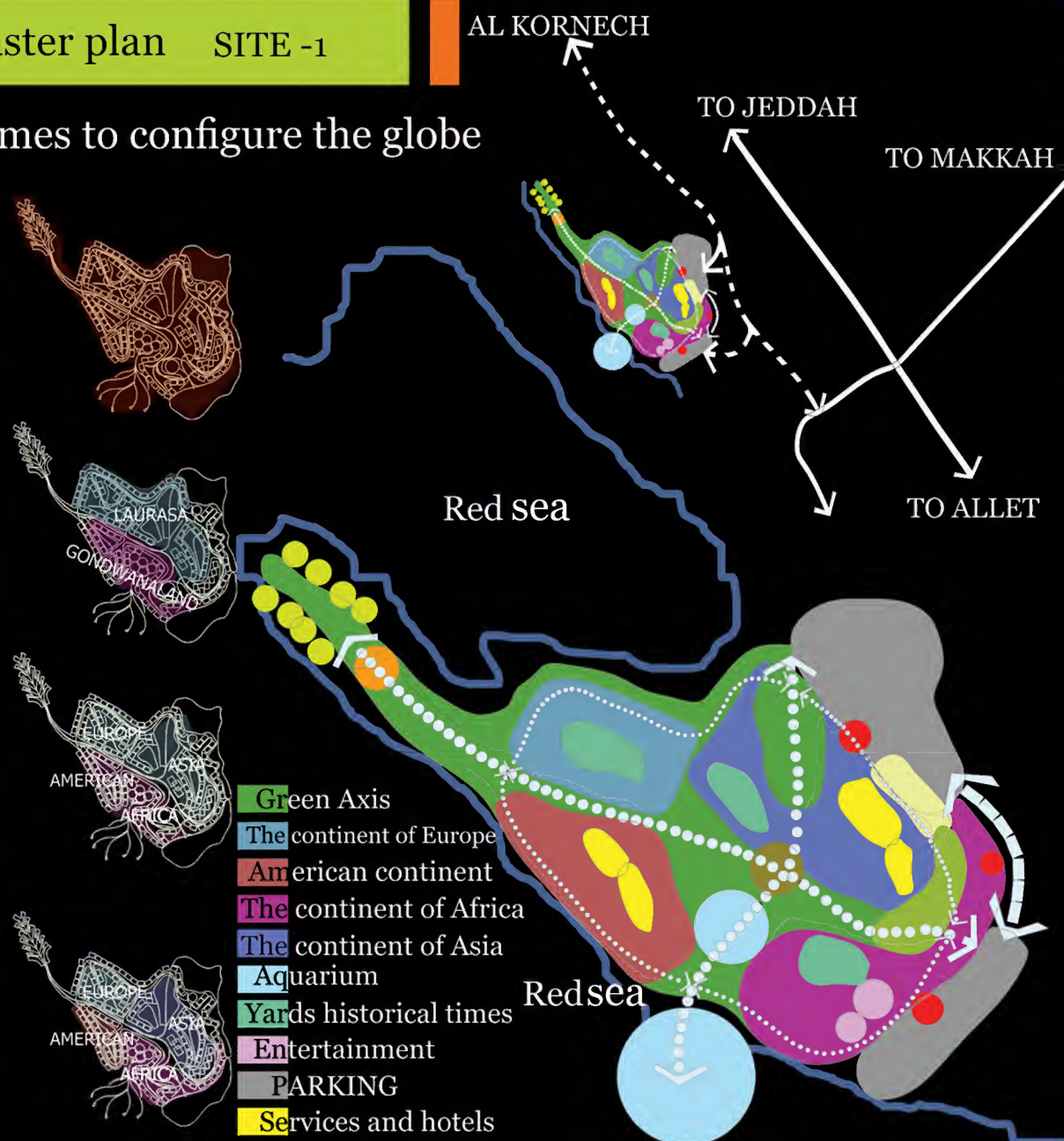
TRIASSIC  
200million years ago



CRETACEOUS  
65million years ago

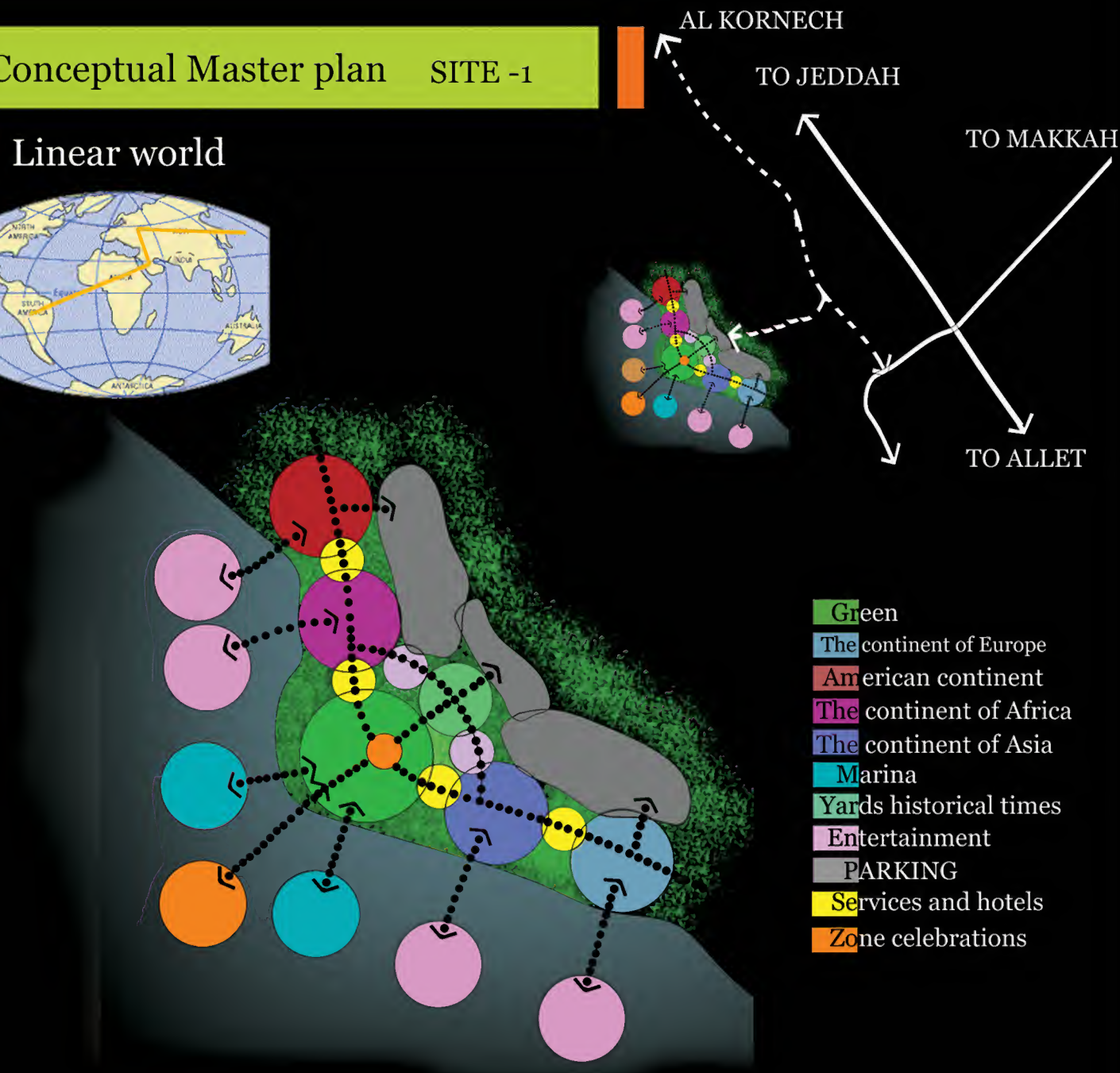


PRESENT DAY



### Conceptual Master plan SITE -1

#### Linear world



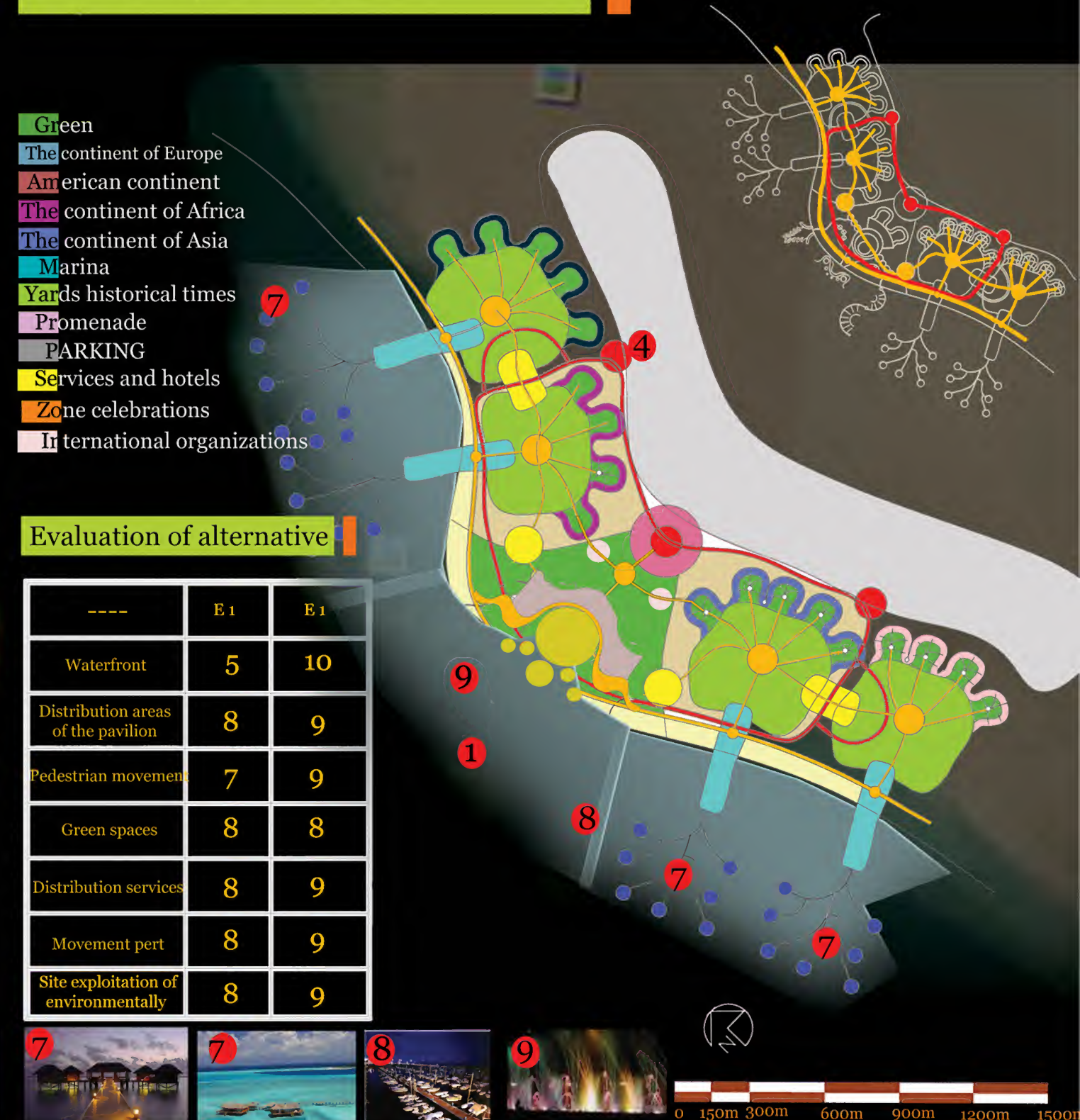


## MASTER PLAN

Master plan SITE -1



Master plan SITE -2



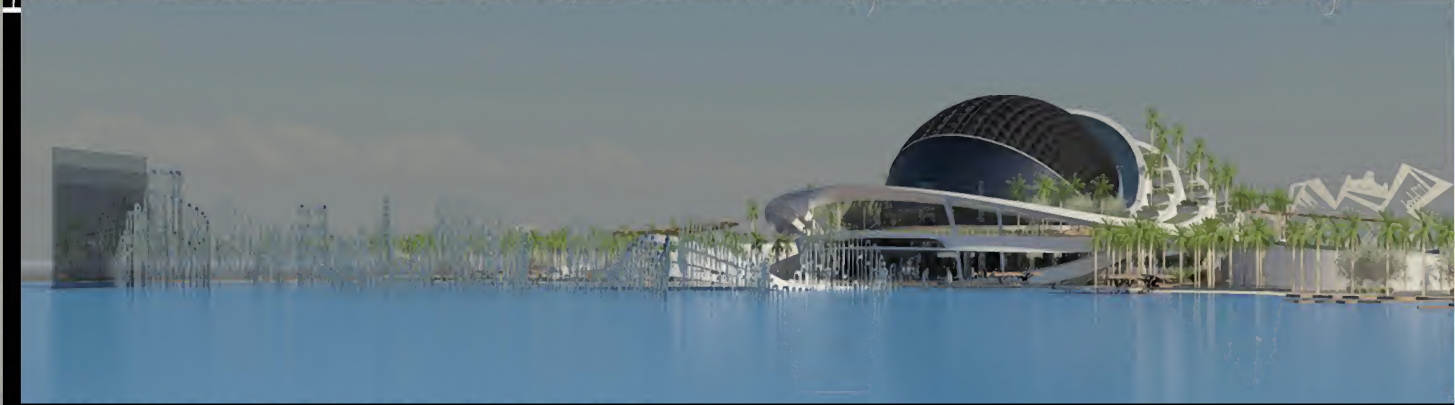


### SITE PLAN

Based on dynamic expression in the architectural composition of the evolution of the kingdom



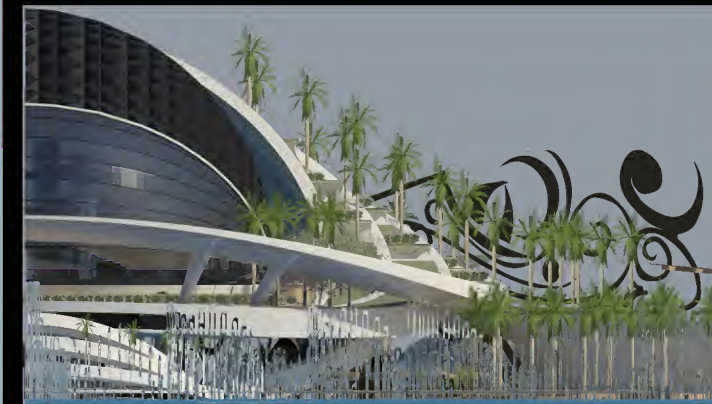
- |                         |                        |           |
|-------------------------|------------------------|-----------|
| 1 Building Saudi Arabia | 5 Garden of the Future | 9 Beach   |
| 2 Dancing fountains     | 6 Boulevard            | 10 Marina |
| 3 Green house           | 7 Screens              |           |
| 4 Garden of the Past    | 8 Stage                |           |



VIEW FROM THE RED SEA

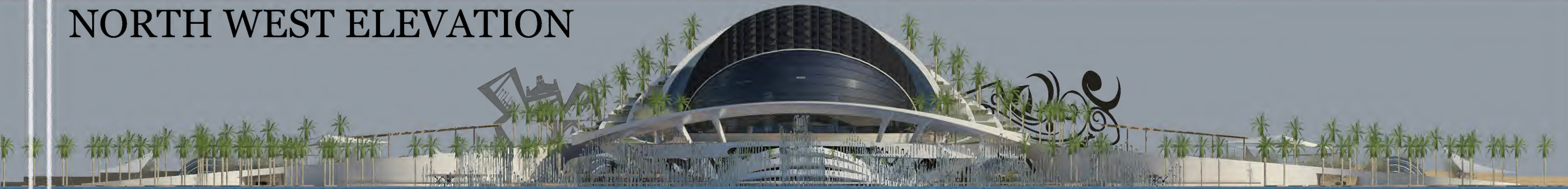


BUILDING MAIN ENTRANCE





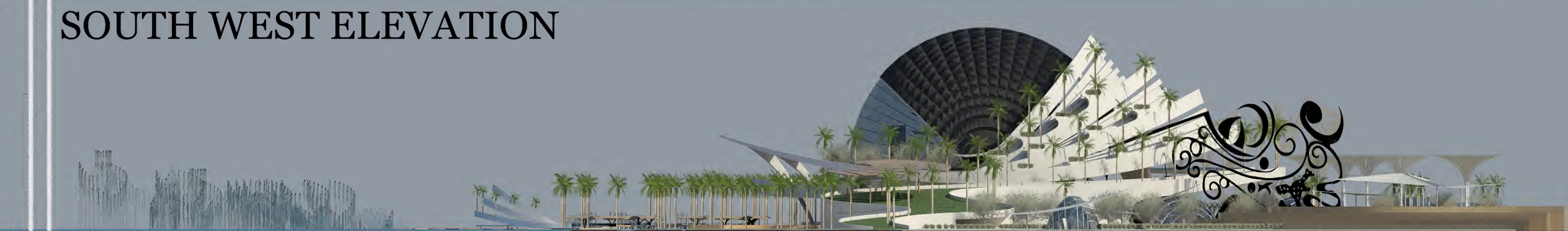
NORTH WEST ELEVATION



SOUTH EAST ELEVATION



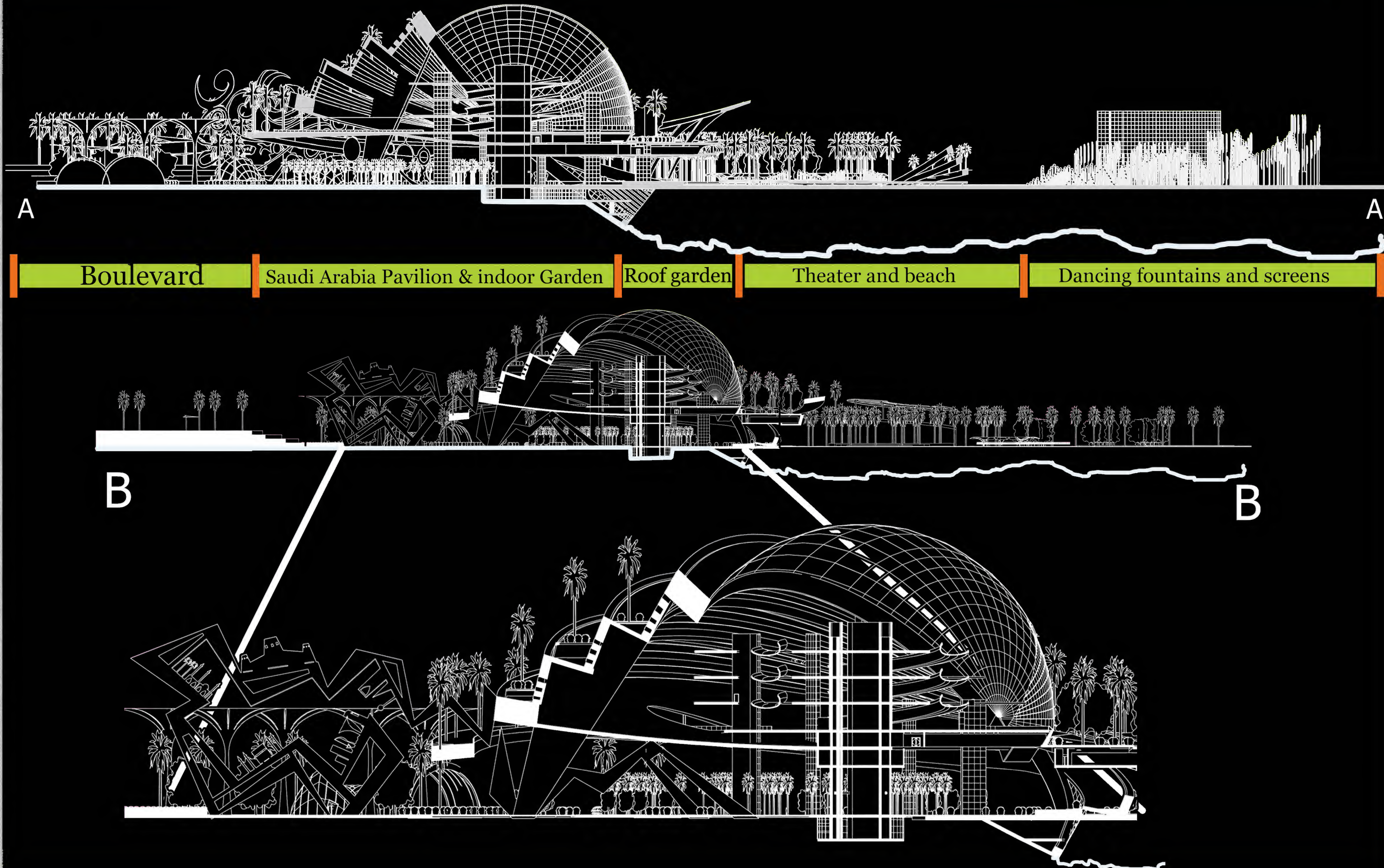
SOUTH WEST ELEVATION



SEC. A-A









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FINE ART

WORLD & SCIENCE GARDEN - RIYADH

LANDSCAPE ARCHITECTURE

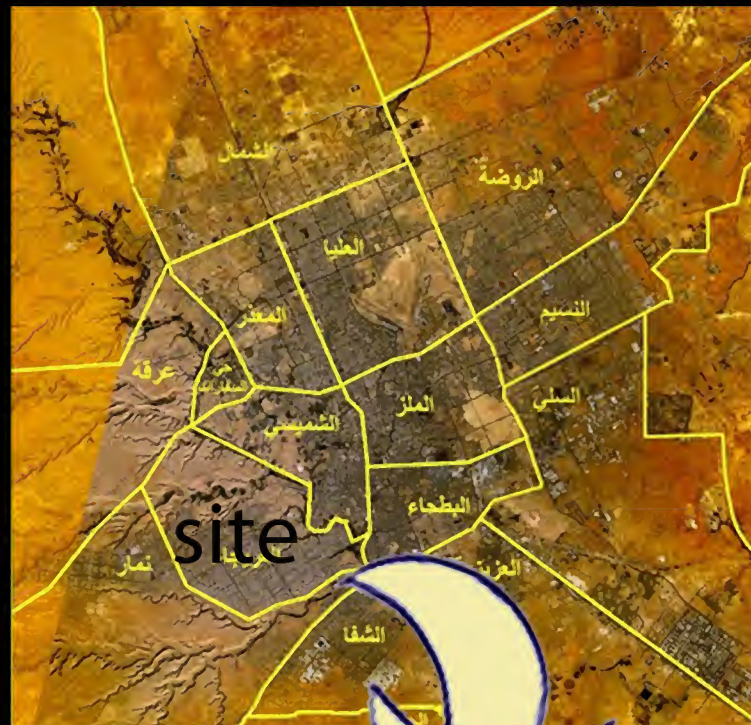
LANDSCAPE ARCHIT



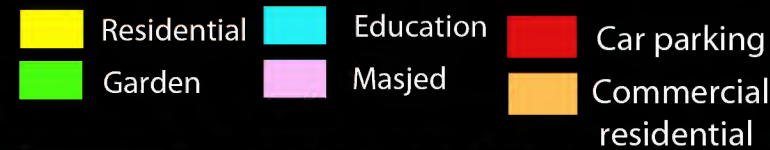
### SURVEY AND ANALYSIS

#### Brief of Riyadh :

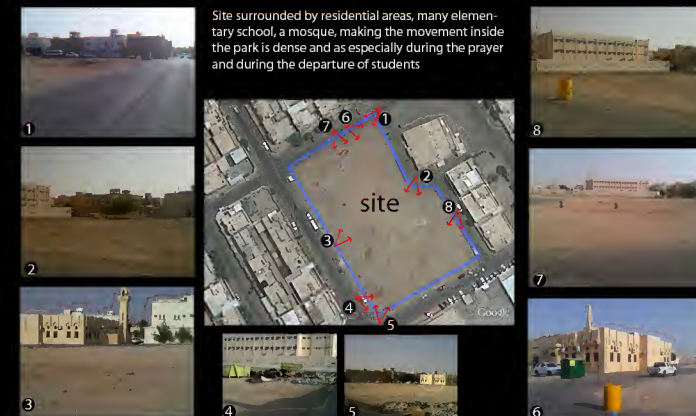
"Riyadh, (plural of kindergarten) means the place rich gardens and orchards and have been known since ancient times its greenery, where the ancient city of stone known as the (green stone) and started name (Riyadh) is called on this city in the twelfth century AH (eighth century AD).



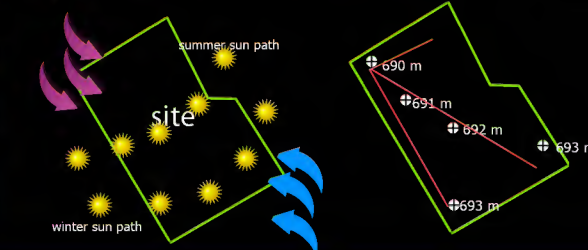
#### Site Context



#### Site Context



#### Natural Factors



#### Goals and Objectives

Lessen the cost of construction

Less maintenance

Attention to pedestrians and give an advantage

Attention to the disabled and people with special needs

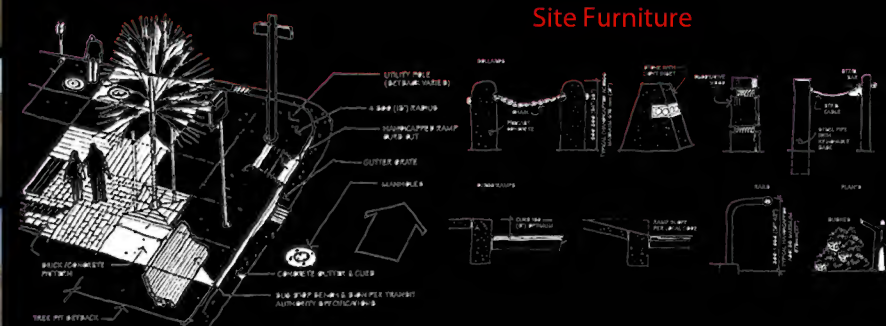
The use of security required

Use of powerful materials for sustainability

- Focus in the design of a particular area and make the rest of the design simple
- Use of resources and low-cost local materials
- The use of materials do not need to maintain
- The use of plants do not need to trim and maintenance of living conditions in Riyadh
- The use of speed bumps to reduce speed of cars
- Design according to design standards for the disabled
- Do not use flammable materials
- The use of water hoses
- Controls for the use of the park

#### Design Criteria

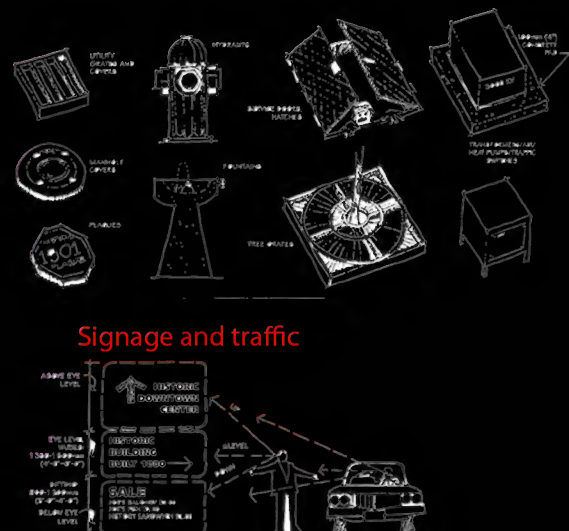
##### Site Furniture



##### Seats



##### Signage and traffic





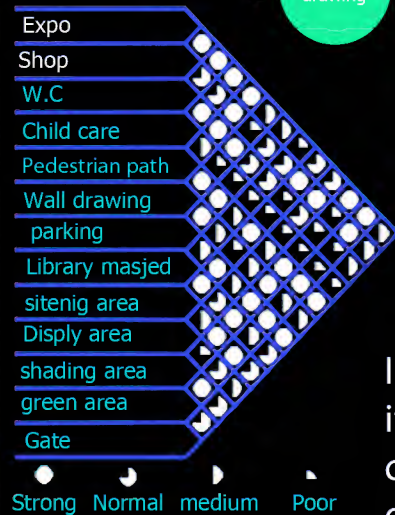
### CONCEPT & MASTER PLAN

#### CONCEPT 1 SCHOOL GARDEN

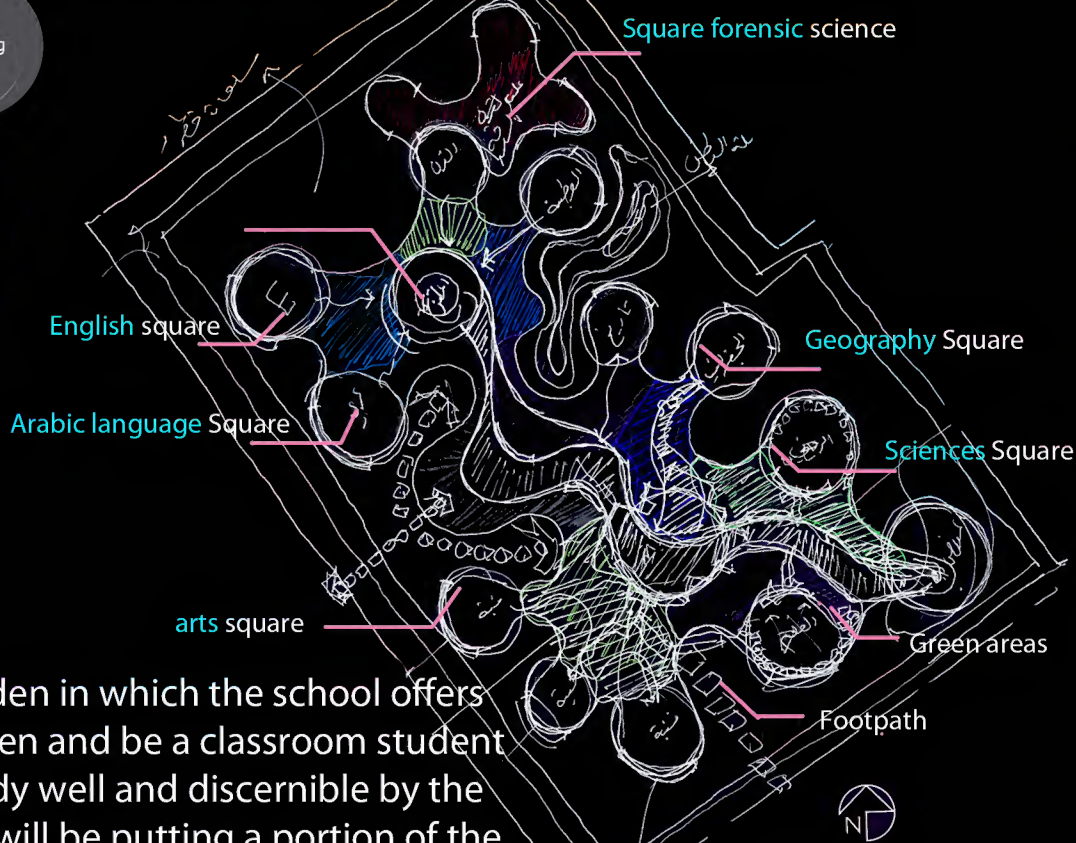
Functional Diagram



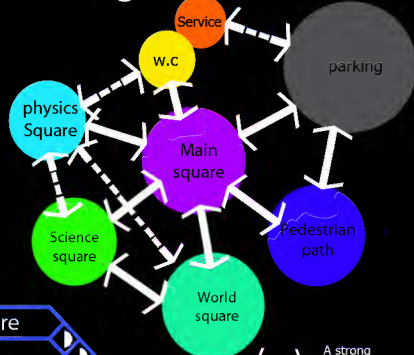
Matrix



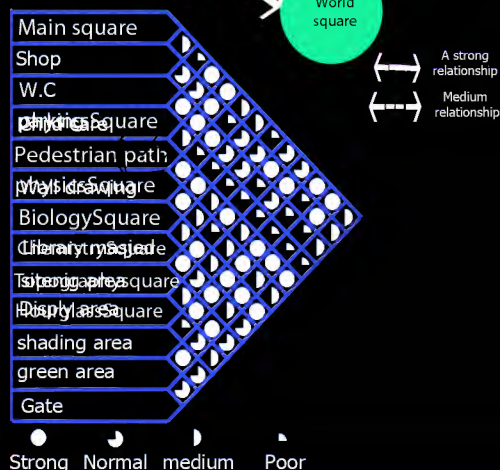
Is a garden in which the school offers its Garden and be a classroom student can study well and discernible by the quotas will be putting a portion of the garden art students present their art work



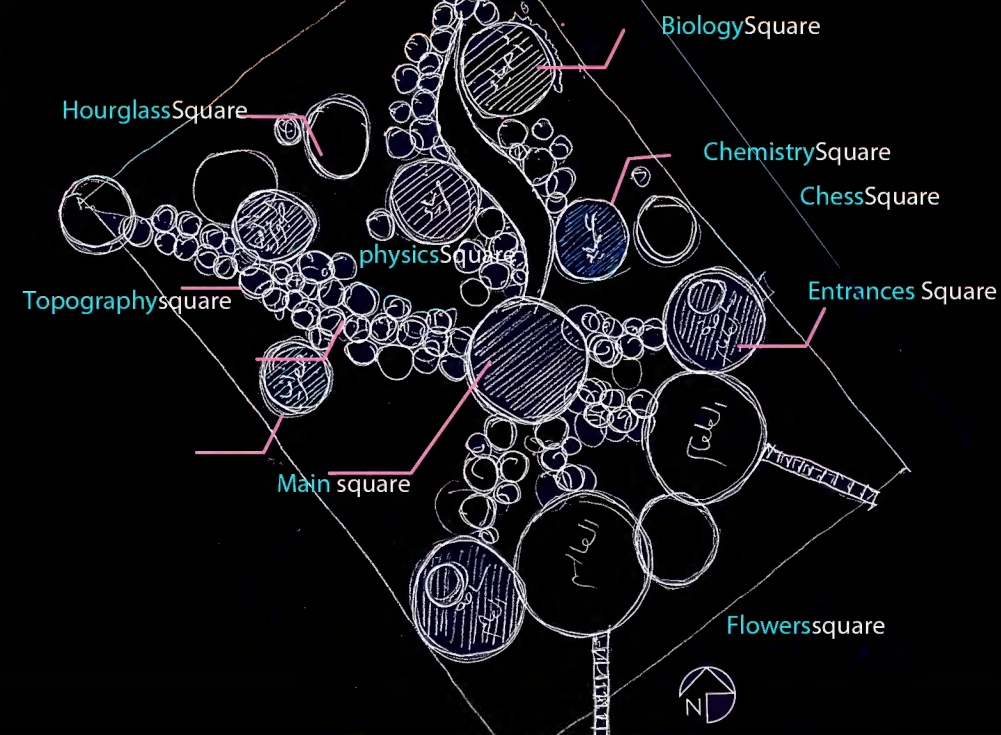
Functional Diagram



Matrix



#### CONCEPT 2 WORLD & SCIENCE GARDEN



#### Preliminary master plan 1



#### Preliminary master plan 2

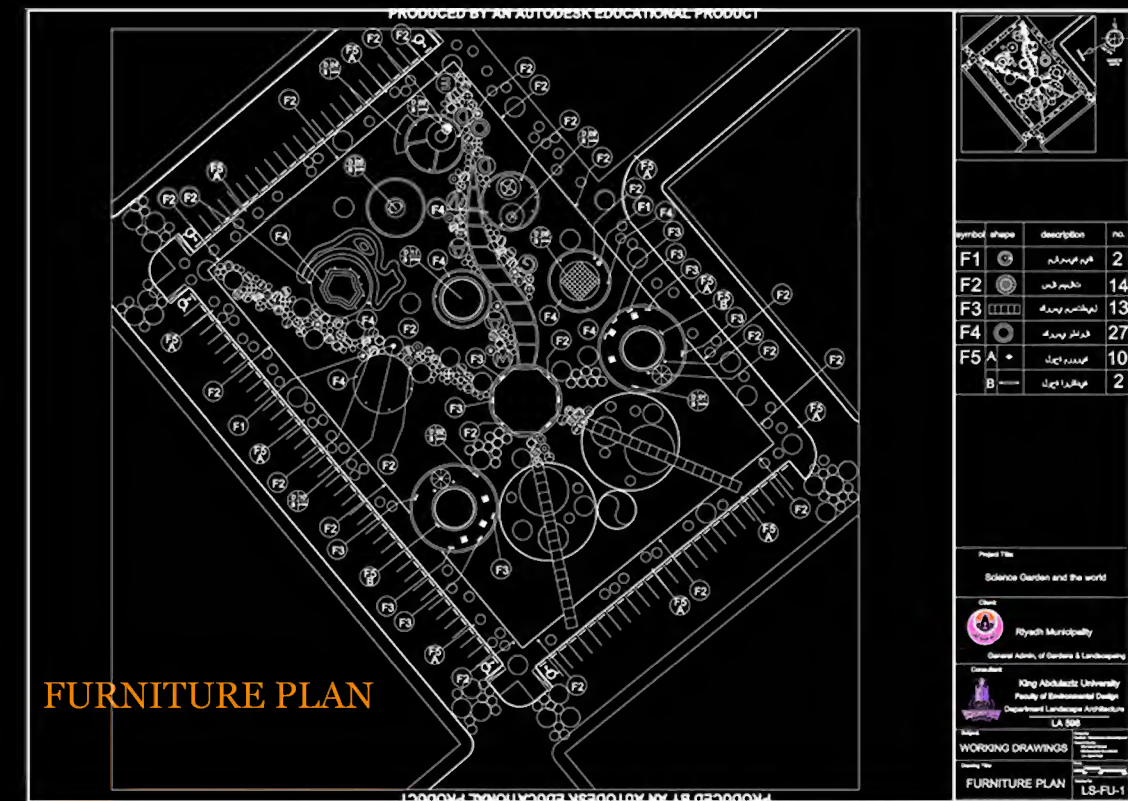
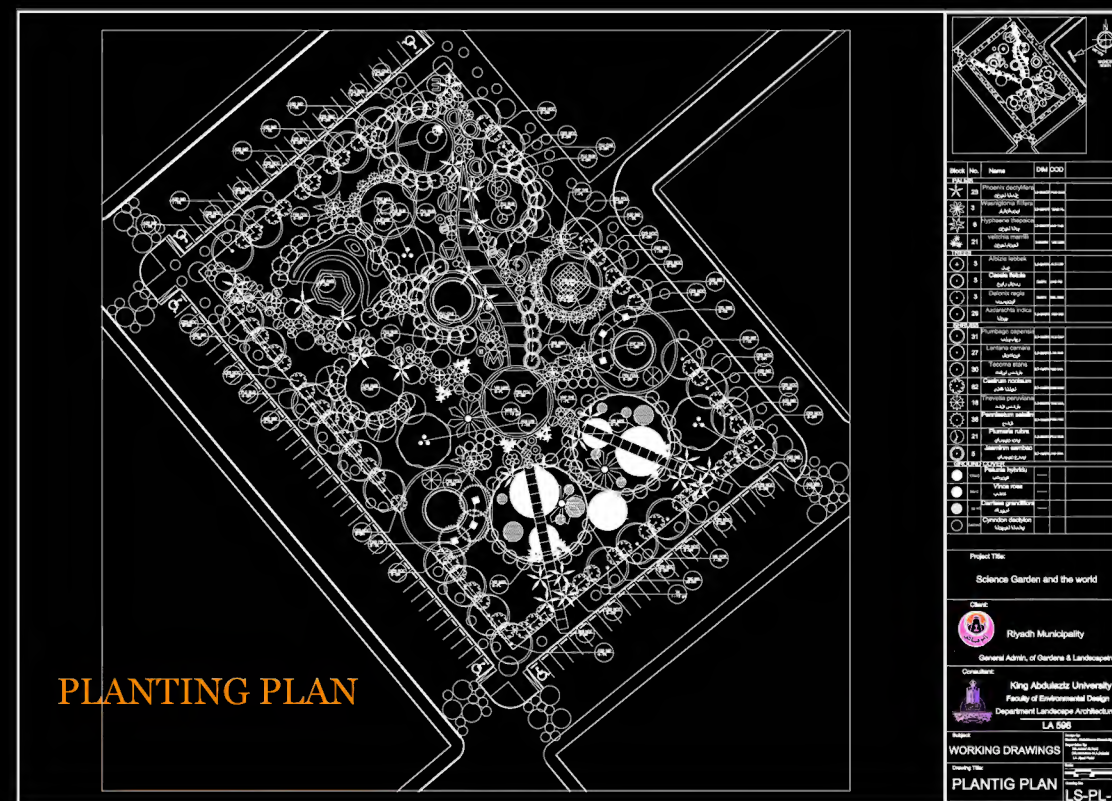
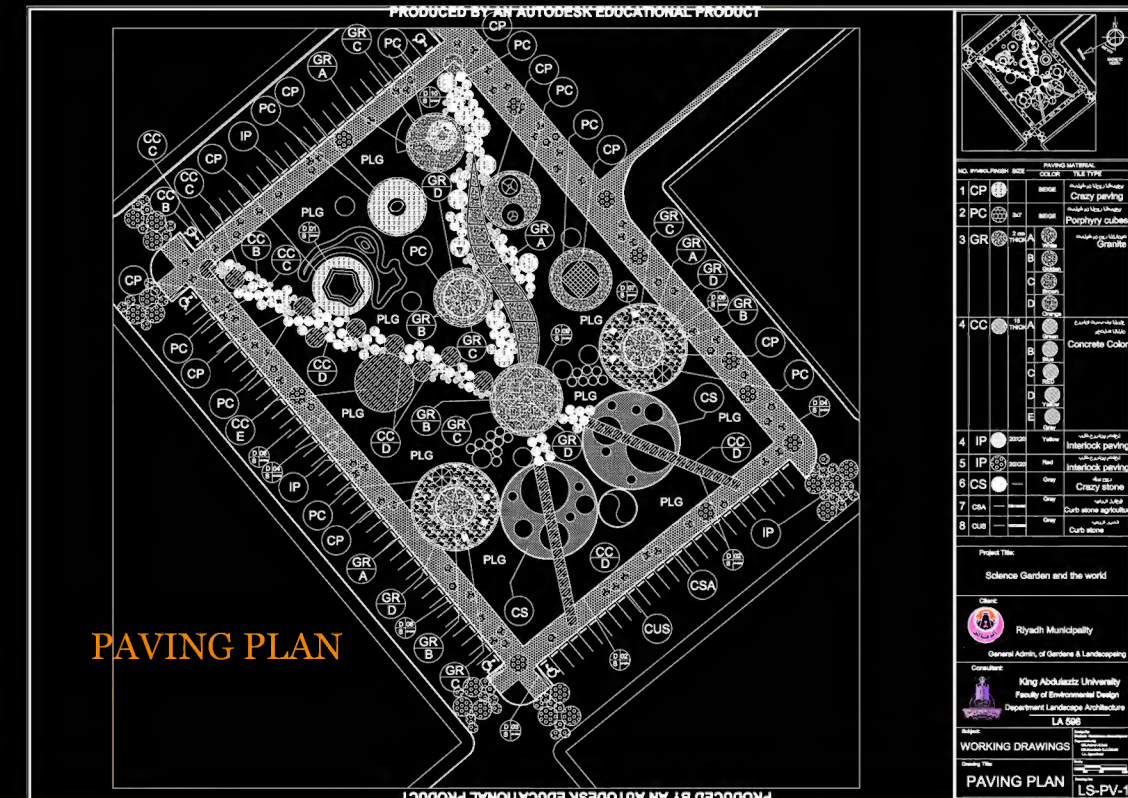
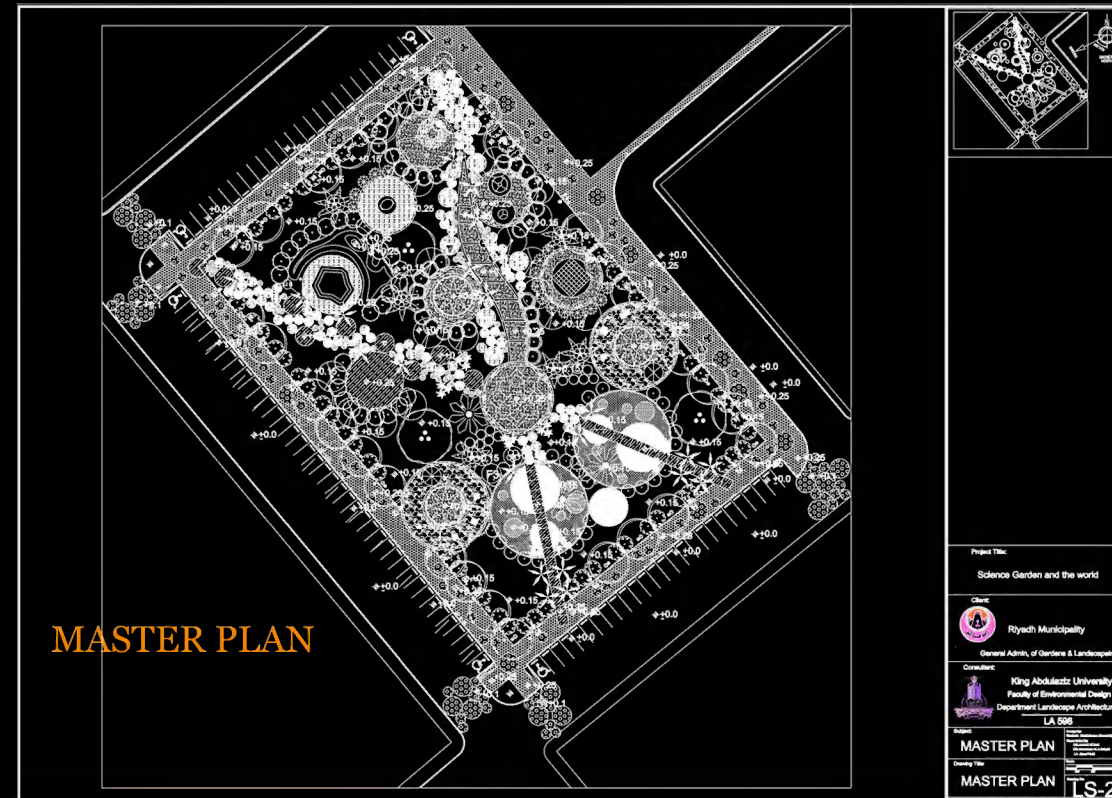




# WORK DRAWING

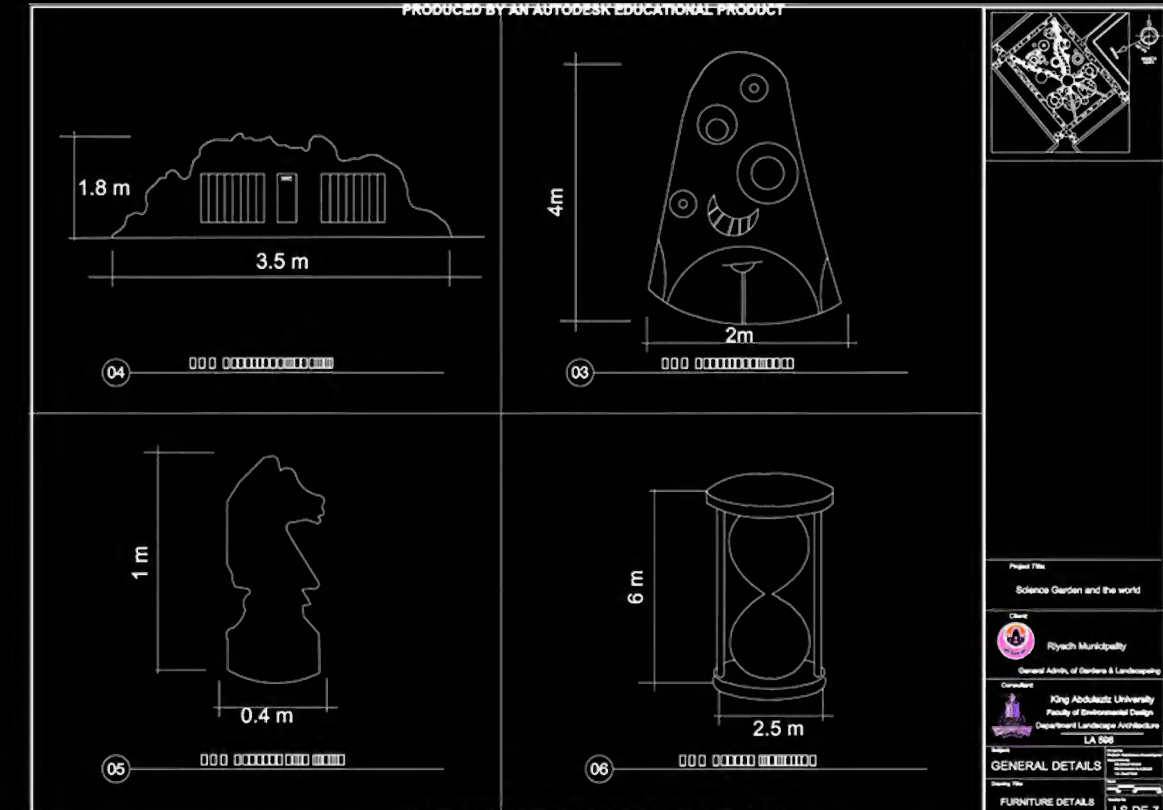
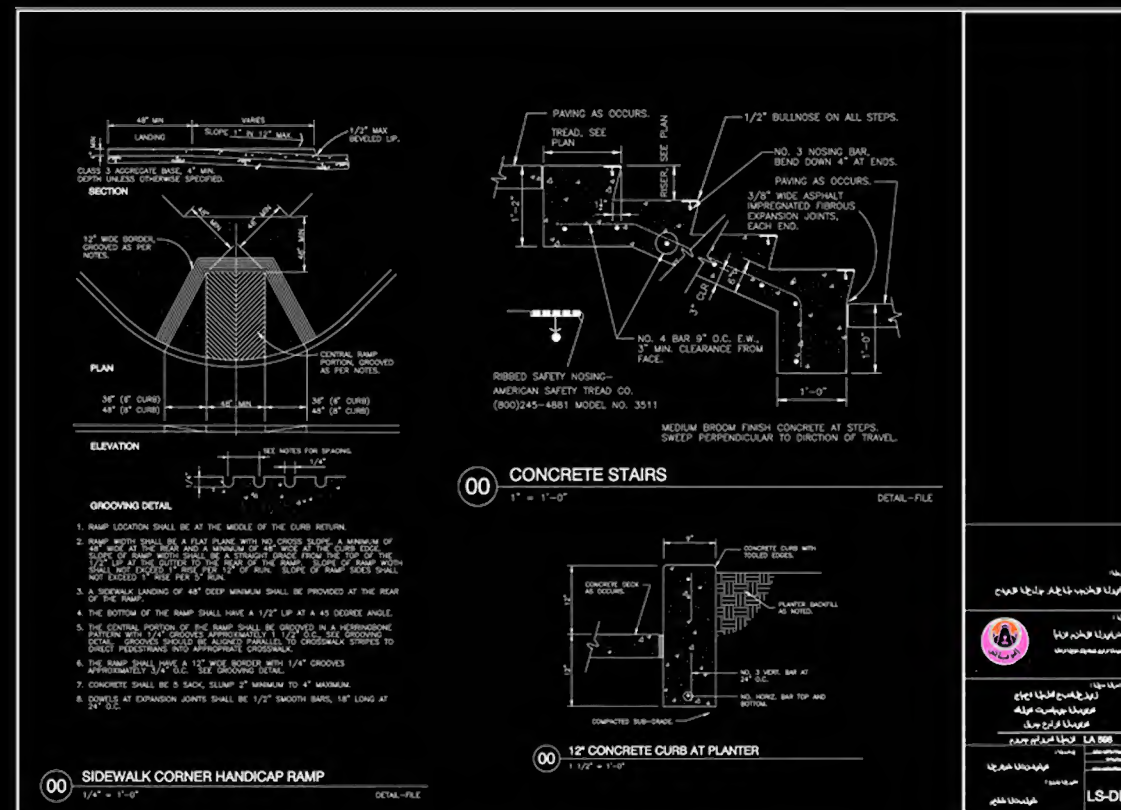
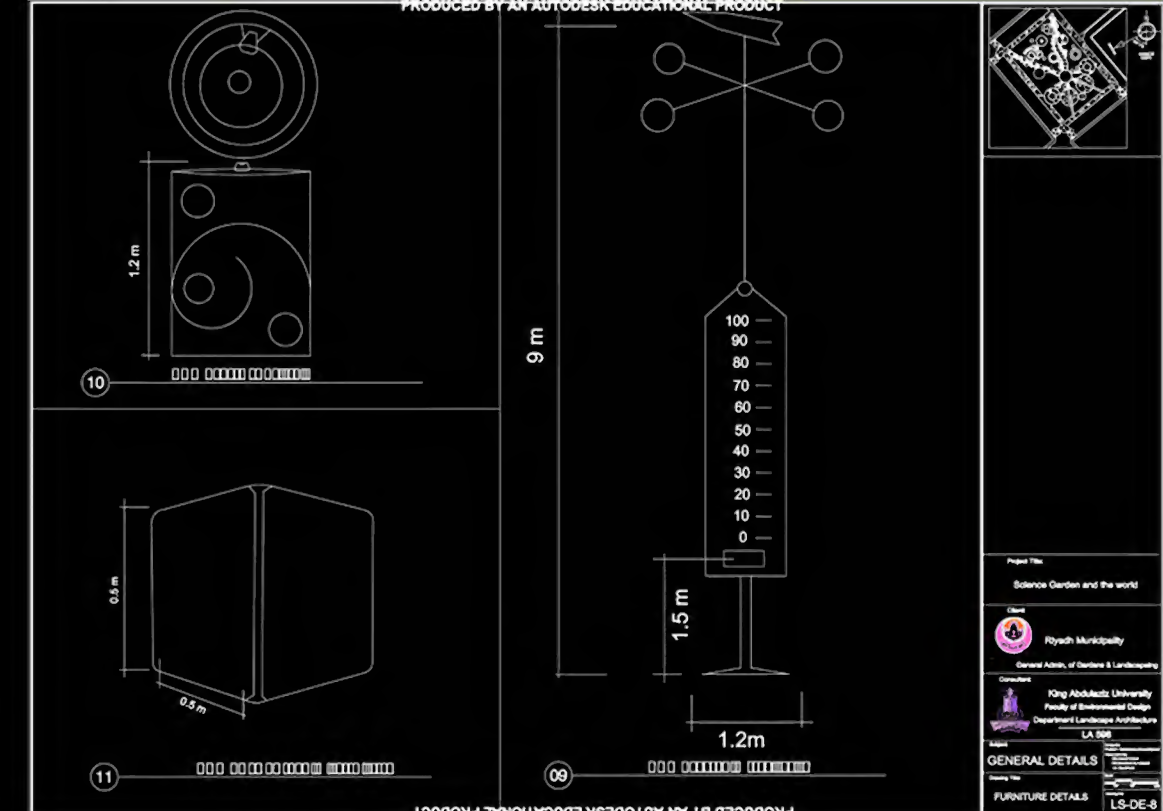
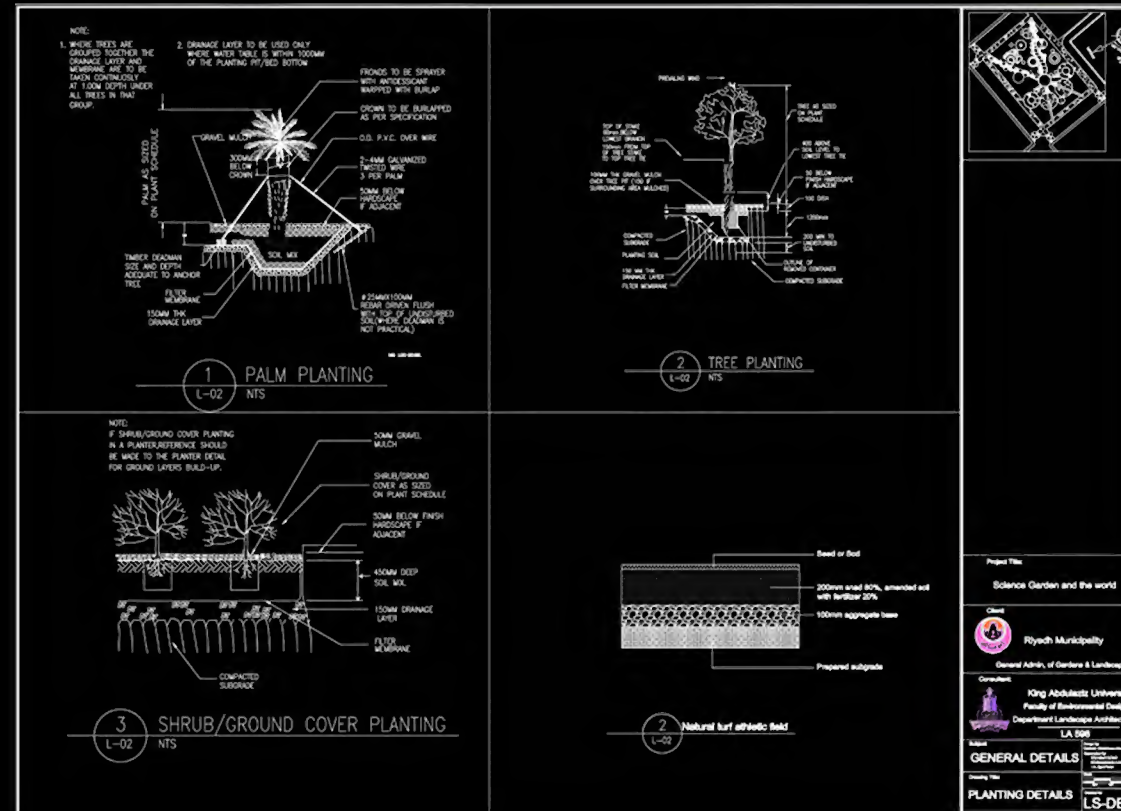
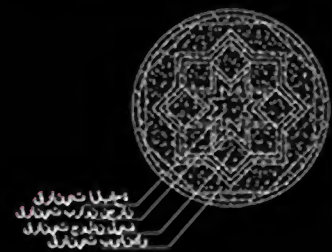
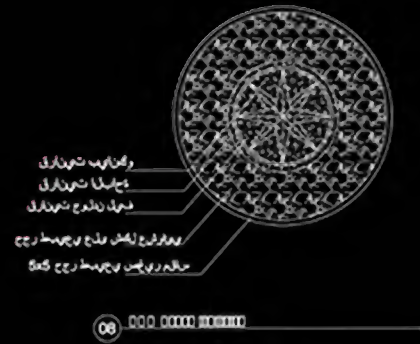
ردیف	ردیف طرح	ردیف طرح	ردیف طرح
<b>WORKING DRAWINGS</b>			
1		COVER	N.T.S
2	LS-1	LIST OF DRAWING	N.T.S
3	LS-2	MASTER PLAN	L.S
4	LS-3	ZONING PLAN	L.S
5	LS-PV-1	PAVING PLAN	L.S
6	LS-FU-1	FURNITURE PLAN	L.S
7	LS-SI-1	SIGNAGE PLAN	L.S
8	LS-PL-1	PLANTING PLAN	L.S
9	LS-IR-1	IRRIGATION	L.S
10	LS-LG-1	LIGHTING PLAN	L.S
<b>CIVIL DRAWINGS</b>			
11	LS-DI-1	SITING OUT PLAN	L.S
12	LS-CO-1	COORDINATES	L.S
13	LS-LV-1	LEVELING PLAN	L.S

ردیف	ردیف طرح	ردیف طرح	ردیف طرح
<b>GENERAL DETAILS</b>			
14	LS-DE-1	DETAILS PAVING	L.S
15	LS-DE-2	DETAILS PAVING	L.S
16	LS-DE-3	DETAILS PAVING	L.S
17	LS-DE-4	PLANTING DETAILS	L.S
18	LS-DE-5	IRRIGATION DETAILS	L.S
19	LS-DE-6	FURNITURE DETAILS	L.S
20	LS-DE-7	FURNITURE DETAILS	L.S
21	LS-DE-8	FURNITURE DETAILS	L.S
22	LS-DE-9	FURNITURE DETAILS	L.S



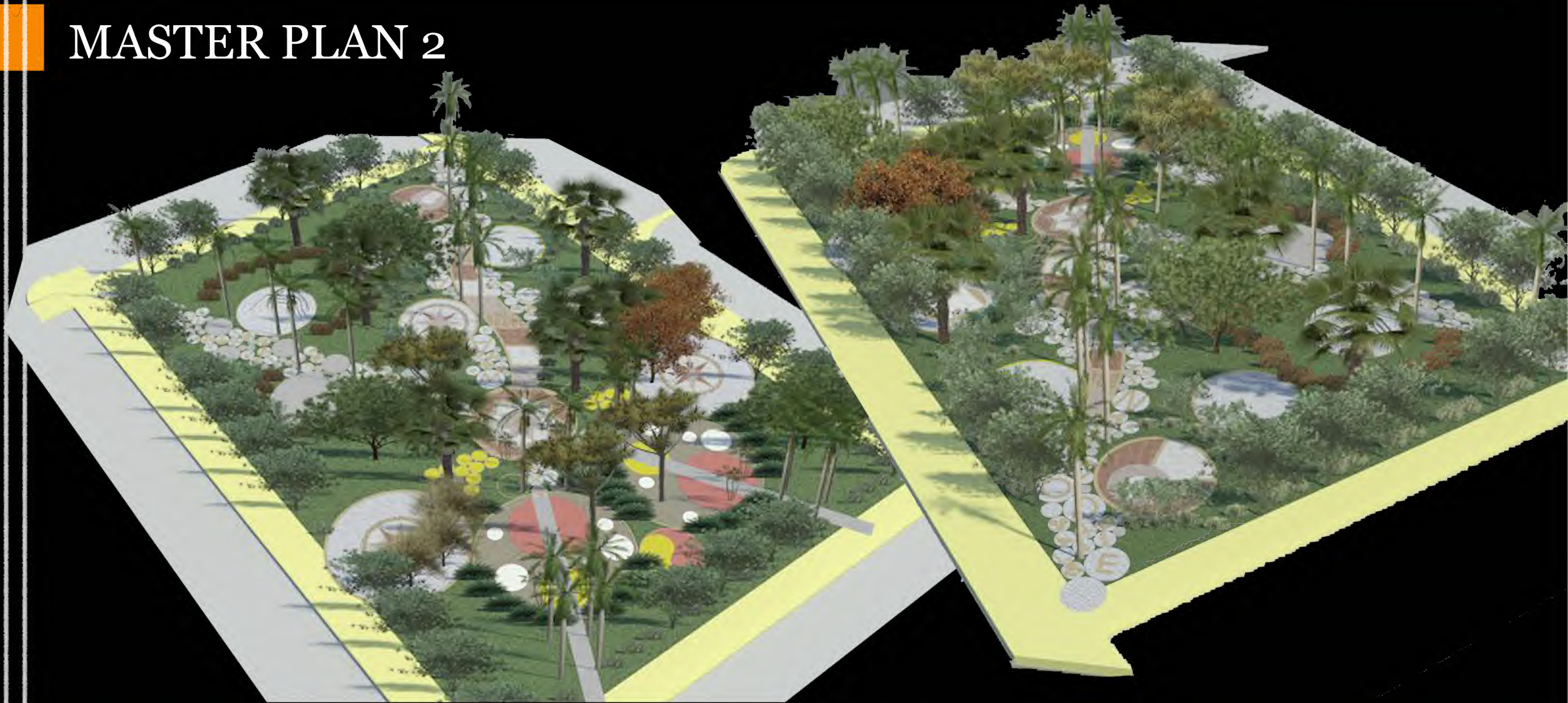


## WORK DRAWING Details





### MASTER PLAN 2





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LANDSCAPE PLANNING OF WADI QAWZ - JEDDAH

LANDSCAPE ARCHITECTURE

LANDSCAPE ARCHIT



### SURVEY

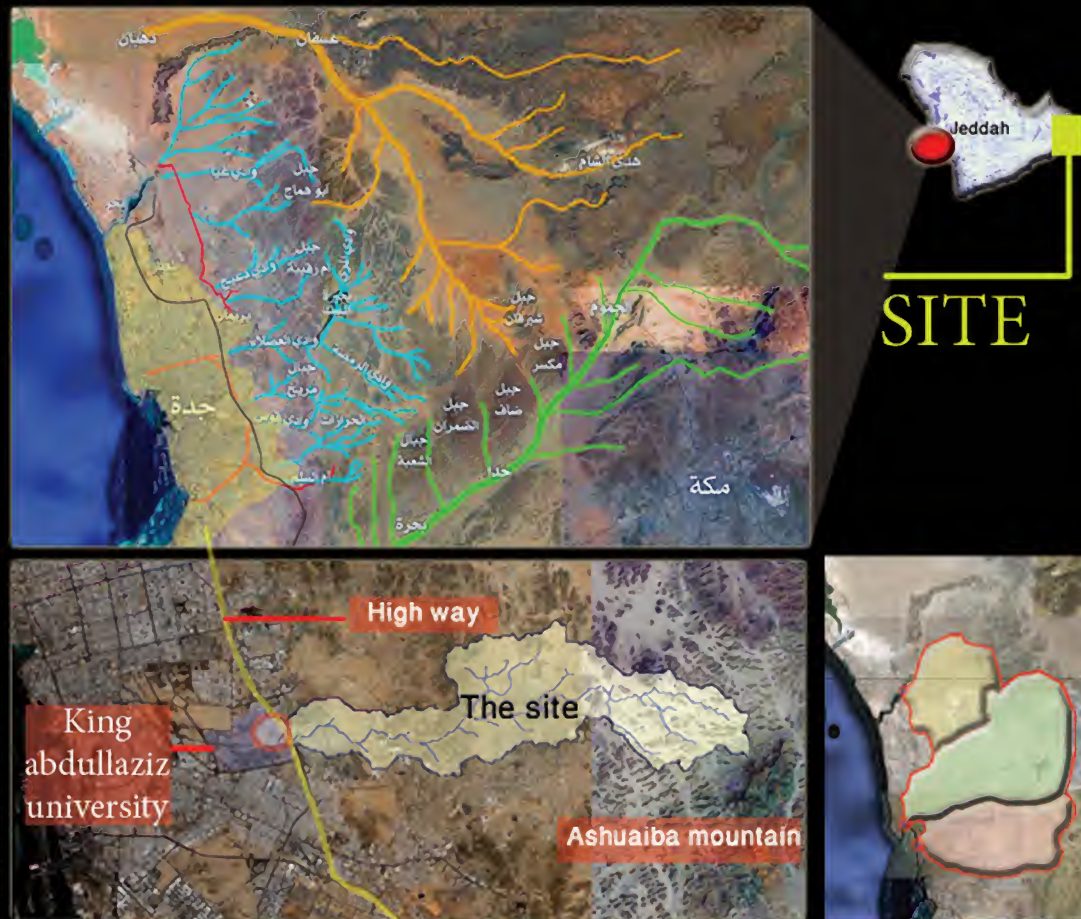
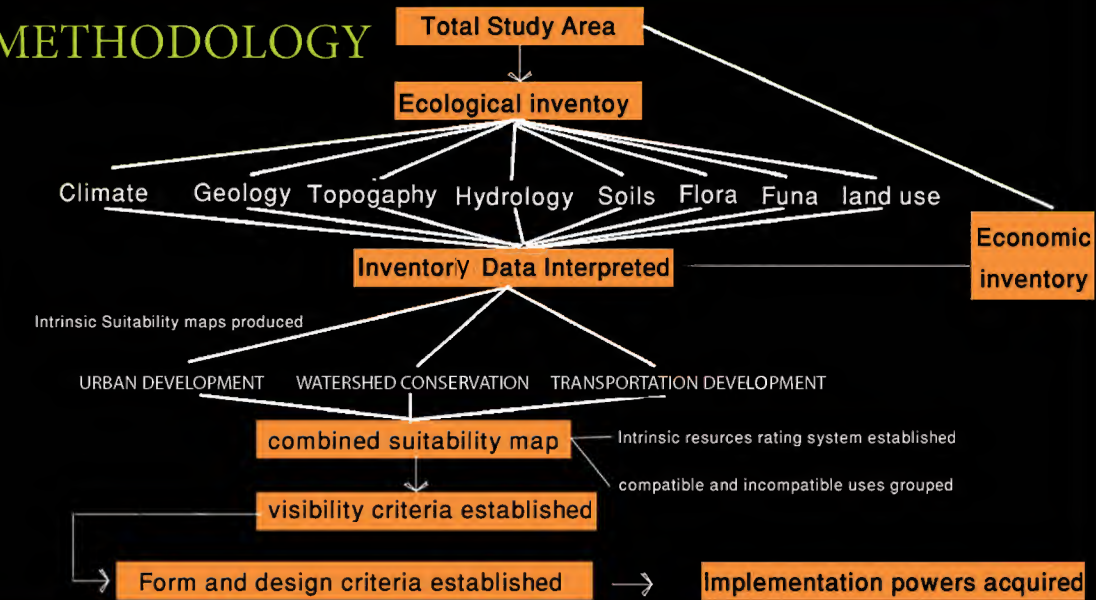
#### VISION

To make Qwaz valley a role model for watershed development in eastern section of Jeddah

#### MISSION

To develop the policies and regulations that would reduce flood and integrate natural factors in planning decision

### METHODOLOGY



### SITE

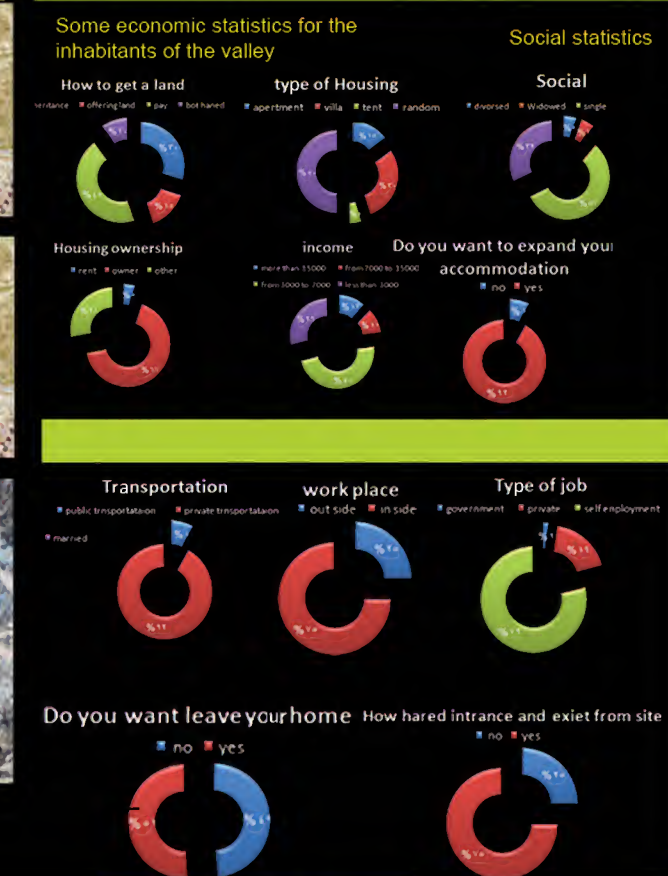
#### Hydrological



#### Land use



#### Socio-economic



#### Climate & Geological

Rate of rainfall per year (1970,2009)  
Clear to us that the most rainfalls in jeddah city will be during these months 11,12,1,2  
The density of the rainfall that caused the disaster occurred in the period from 93 to 25 years as shown in the table

Station ID	Station Name	Return period (years)	5y	10y	25y	50y	100y	200y
41024	Jeddah		48.9	70.52	97.17	115.44	131.95	146.65

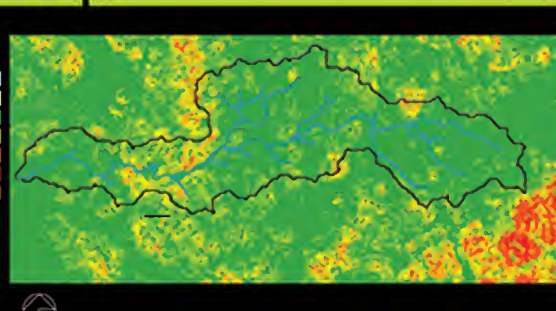
Maximum of the intensity of the rainfall since 40 years, age from 1969 to 2010

Year	Month	Day	Rainfall (mm)
1969	11	3	83
1970	1	14	82
1971	11	29	79
1972	2	17	67
1973	12	13	58
1974	11	29	56
1975	11	2	52
1976	2	4	48
1977	11	18	46
1978	11	19	42
1979	11	10	40
1980	11	18	40
1981	11	18	38
1982	11	10	38
1983	11	10	36
1984	11	14	32
1985	11	14	32
1986	11	22	32
1987	11	2	32
1988	11	12	28
1989	12	29	28

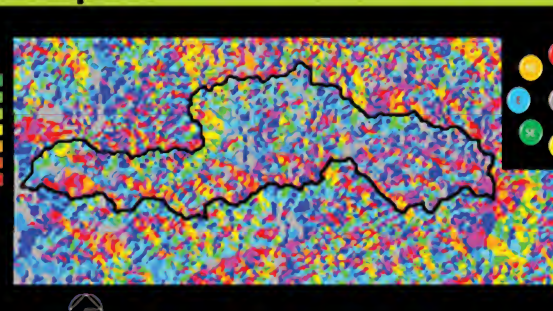
#### Topographical



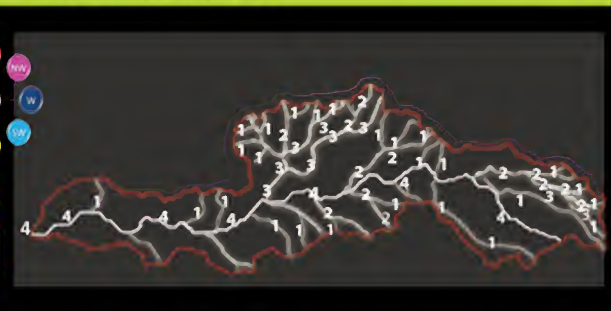
#### Slope



#### Aspect



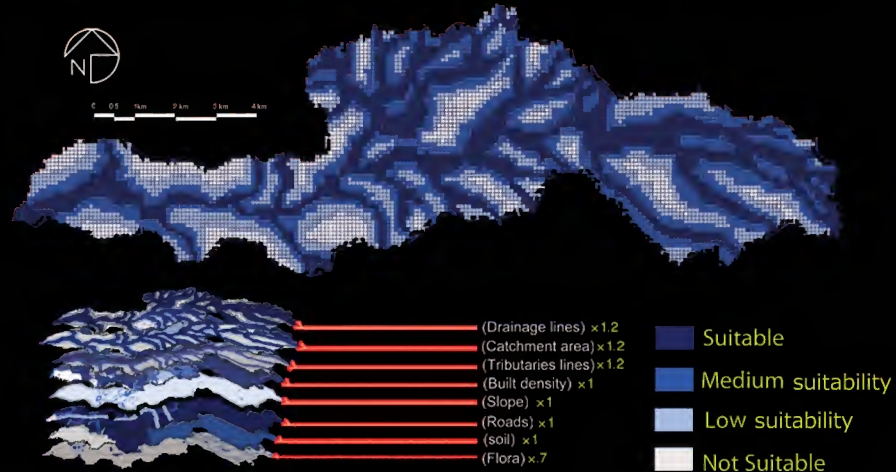
#### Stream Order



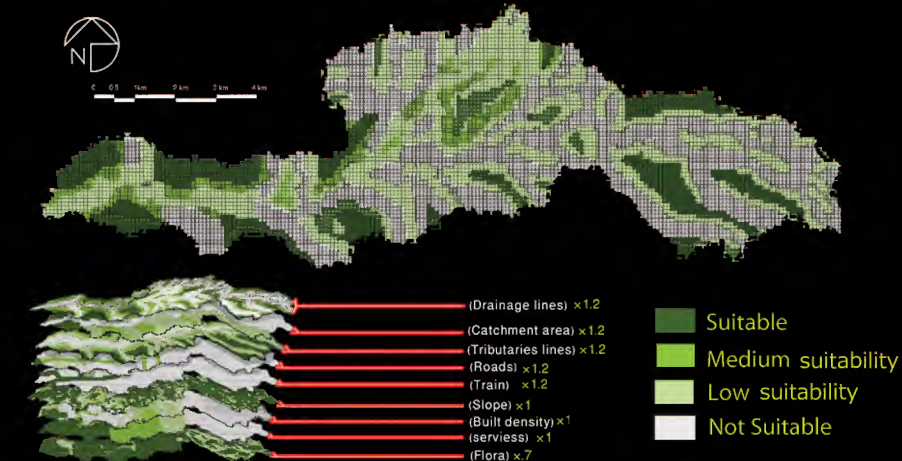


### ANALYSIS

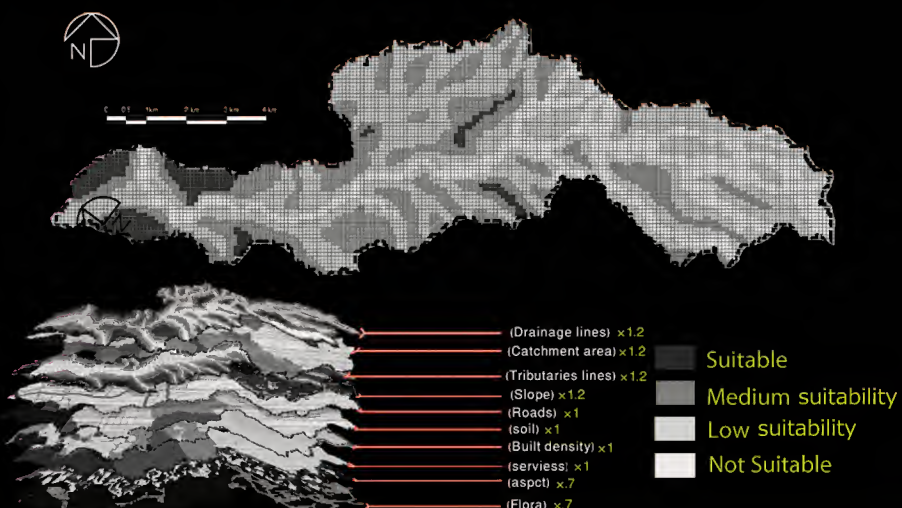
#### Suitability Of Watershed conservation



#### Suitability Of Transportation Development



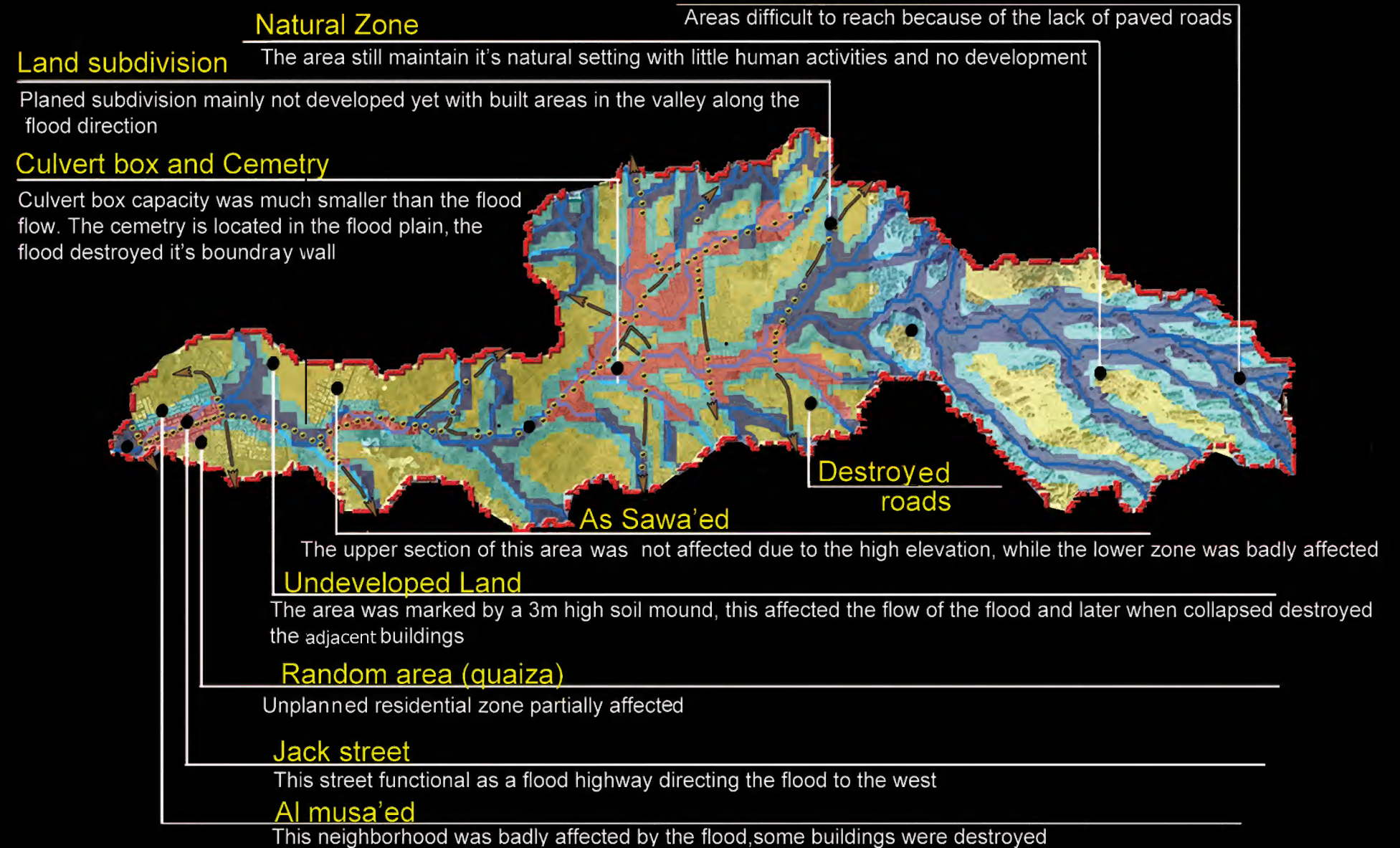
#### Suitability Of Urban Development



#### Composite Suitability Map



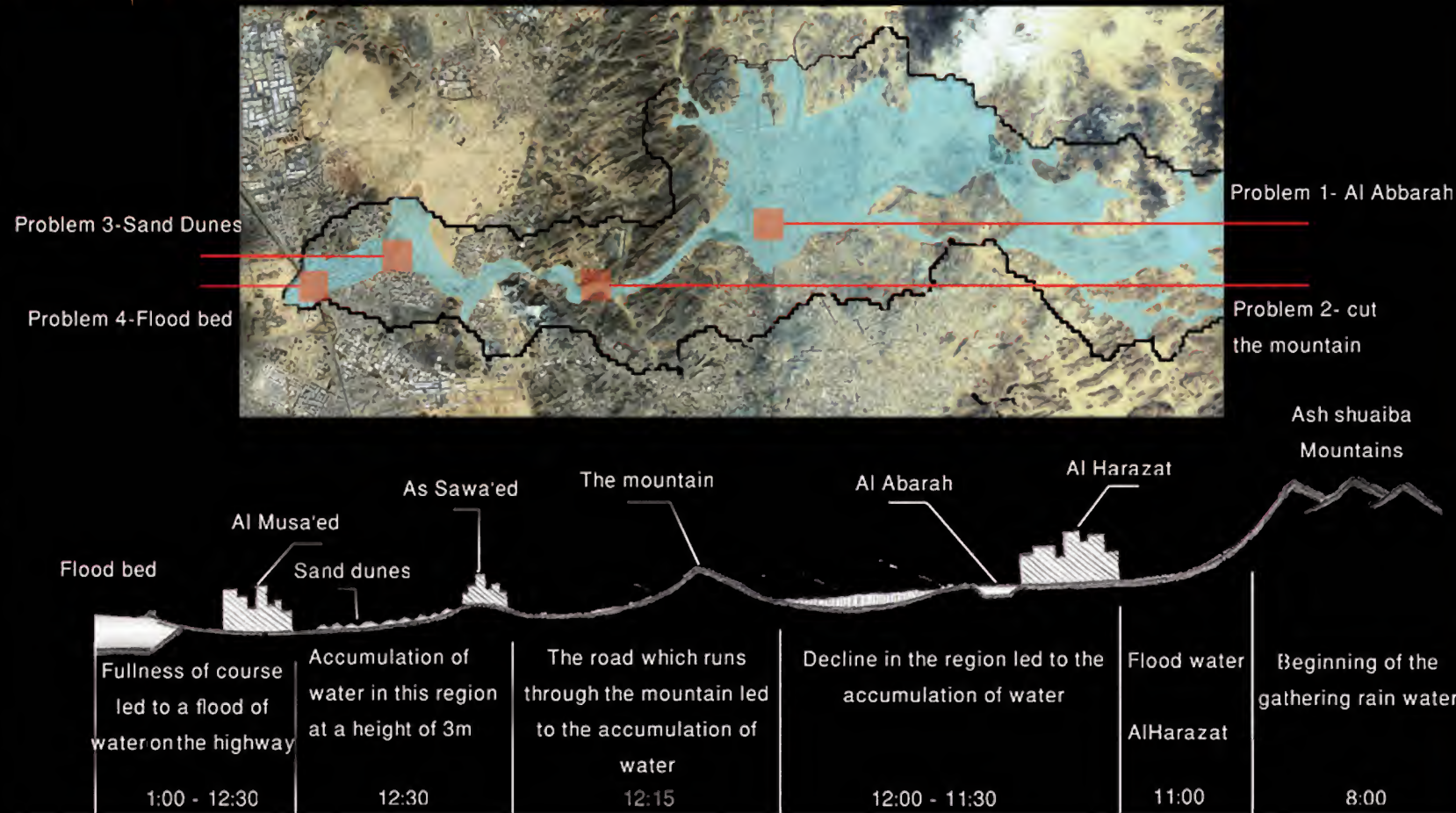
#### Suitability Varification



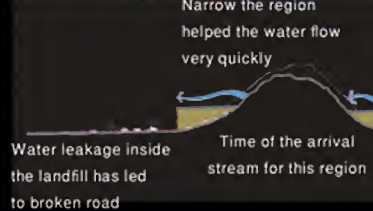
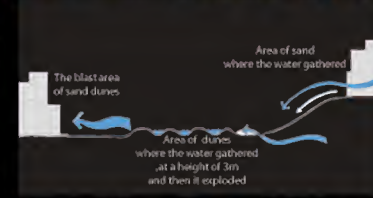
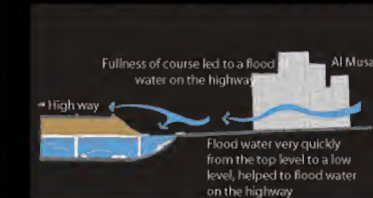


### ANALYSIS

### Analysis of Qawz valley Disaster



### Main Cause of Flood



Water leakage inside the landfill has led to broken road

Time of the arrival stream for this region

### Matrix

Relation

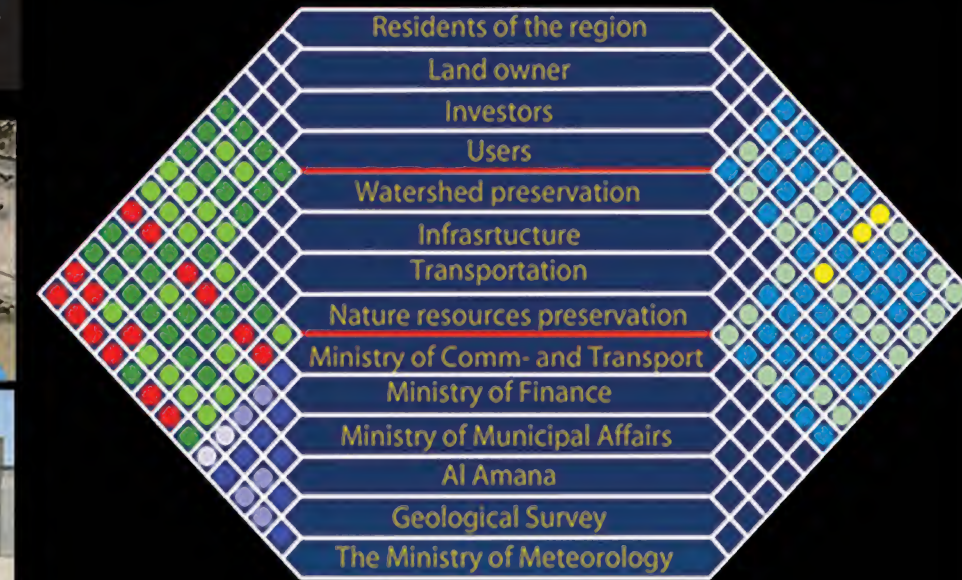
- Very strong
- Strong
- Weak

Involvement

- Directly involved
- Involved
- Not involved

Position

- Supports
- Neutral
- Opposes



Relation

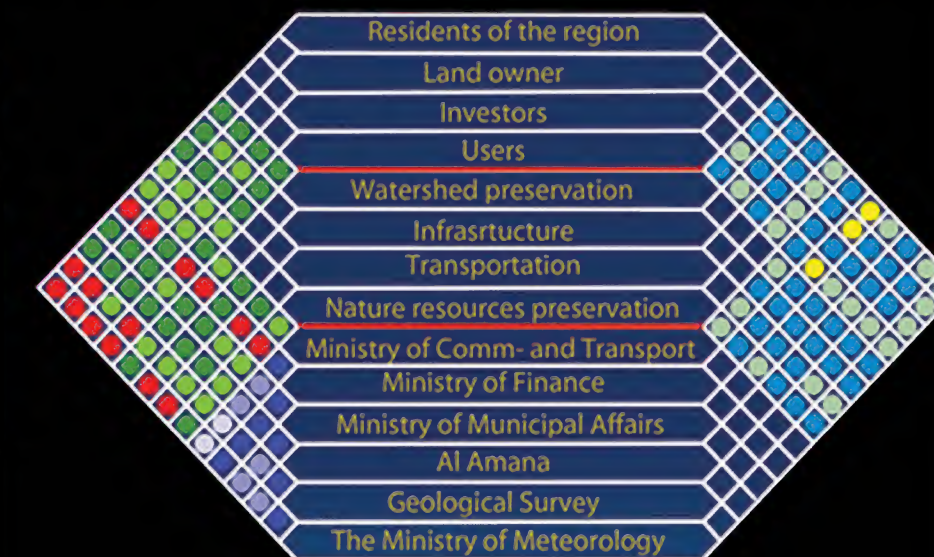
- Very strong
- Strong
- Weak

Involvement

- Directly involved
- Involved
- Not involved

Position

- Supports
- Neutral
- Opposes





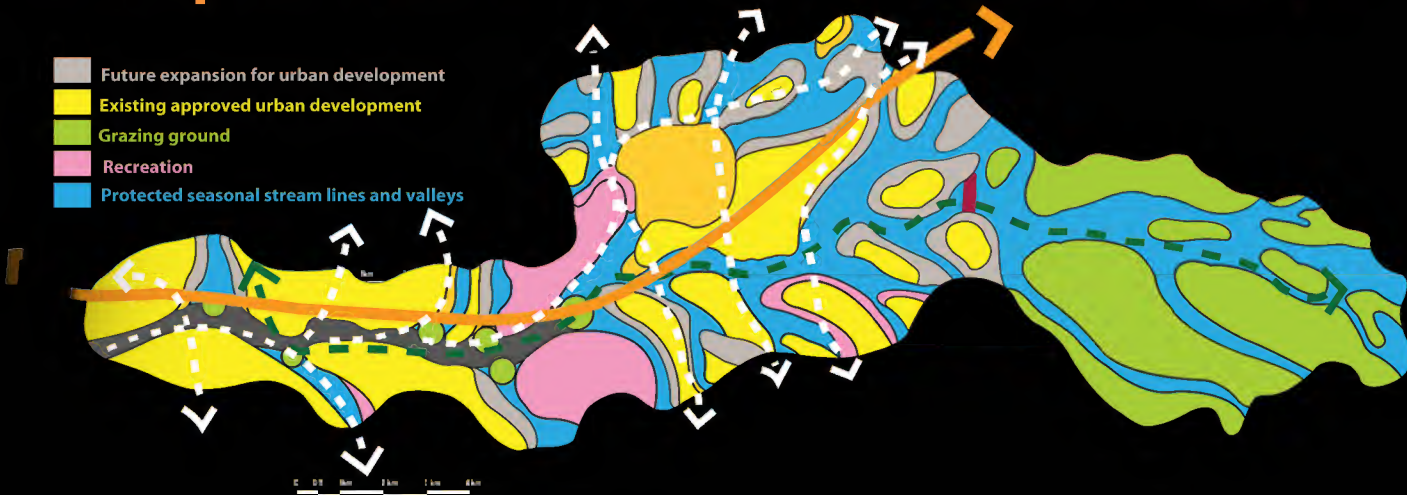
CONCPTUAL MASTER PLAN

The proposed solution integrated the flood channel with existing urban fabric and allowed for transition between the Urban boundary and the rural zone Economical value was calculated, including compensation for removed properties and cost of development. The eastern parts were designated for grazing ground which will maintain part of the rural char acter of the valley

Conceptual Master Plan The first alternative



Conceptual Master Plan The second alternative



Analysis Conceptual Master Plan



Saving 28865.5 m2 space lands  
Remove 2170 m2 from residential areas  
A blank space was provided 8 times the space inhabited, almost

The number of families that are transferred from the removed areas 12000 captured the equivalent of almost 60000 people

Region	Area	No. Buildings	Building's Price	No. plots	Plot's price	Price/m2
1	335300 m2	440	Depends on income On 10 years	-	With services 150 -200	-
2	890900 m2	400	8000000 - Million	1427.25	-	1200
3	344600 m2	80	Depends on income On 10 years	791.5	With services 150 -200	-
4	147100 m2	100	8000000 - Million	187.75	-	1200
5	934300 m2	100	Depends on income On 10 years	2235.75	With services 150 -200	-
6	344800 m2	30	Depends on income On 10 years	832	With services 150 -200	-
7	2578500 m2	100	Depends on income On 10 years	6356.25	With services 150 -80	-
8	2430700 m2	50	Depends on income On 10 years	6026.75	Without services 100 -80	-

Cost of removal by the royal decree about 1090000000 SR, for an area of 7921700 m2  
Provide twice the area of deforestation is equivalent to 13264100 m2

Analysis Conceptual Master Plan



Saving 42518.5 m2 Space lands  
Remove 1200 m2 residential areas  
Provide an empty space almost 40 times the area inhabited

The number of families that are transferred from the uncleared areas captured by 5799 the equivalent of almost 40 593 people

Region	Area	No. Buildings	Building's Price	No. plots	Plot's price	Price/m2
1	147000 m2	400	Depends on income On 10 years	-	With services 150 -200	-
2	679900 m2	90	8000000 - Million	1609.5	-	1200
3	169800 m2	100	Depends on income On 10 years	324.5	With services 150 -200	-
4	287700 m2	30	8000000 - Million	689.25	-	1200
5	1273000 m2	200	Depends on income On 10 years	2982.5	With services 150 -200	-
6	657800 m2	50	Depends on income On 10 years	1594.5	With services 150 -200	-
7	3103100 m2	100	Depends on income On 10 years	7657.75	With services 150 -80	-
8	4173100 m2	30	Depends on income On 10 years	10402.75	Without services 100 -80	-

Cost of removal by the royal decree about 1954675000 SR, for an area of 10491400 m2  
Provide 8 times the area of deforestation is equivalent to 18567700 m2



### SITE DESIGN

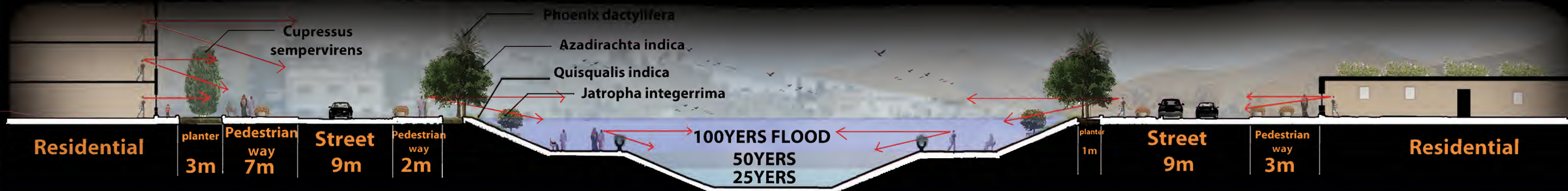
#### PLAN



#### VEWS



#### SECTION





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E ARCHITECTURE

FINE ART

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LANDSCAPE ARCHITECTURE

URBAN DESIGN

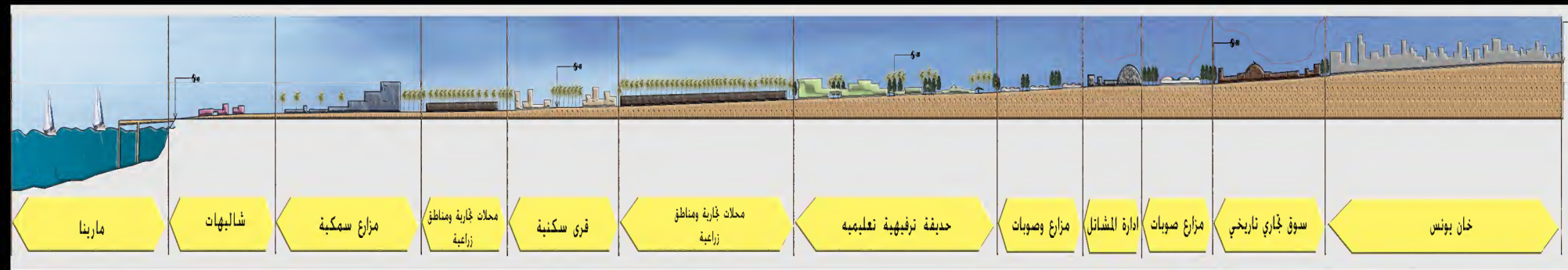
RECONSTRUCTION OF GAZA - GAZA

LANDSCAPE ARCHITECTURE

LANDSCAPE ARCHIT



## CONCEPTUAL MASTER PLAN

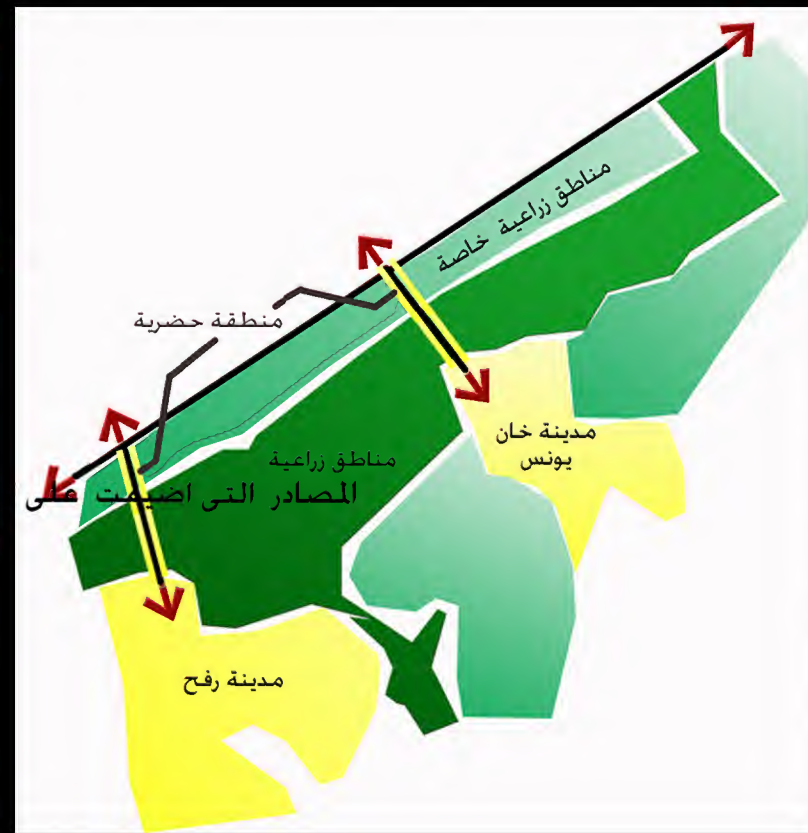


### MISSION

provide a new idea for the Gaza people to let them find the basic material to life such as food, entertainment and education

### GOALS

- Economical:** find strong relation between the city and the sea
- Social:** improve the social situation
- Environmental:** improve the environmental and use the environmental resources
- Tourist:** provide green area for the site and city
- Culture:** shows the heritage and make sure to provide the link between the two cities



Residential Villages	existing area	pedestrian path way	Open space
Agricultural marketing	Park	existing Agricultural areas	Craft market
Resorts	Restaurant	Proposed Agricultural area	Traditional cultivation
Marina	Fountain	Alaqa University	Kan yones and rafah city



### MASTER PLAN

ZONE 1

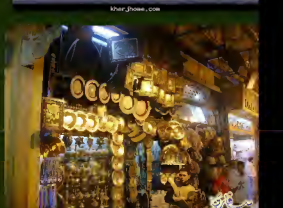


ZONE 2



ZONE 3

- Farms
- Commercial
- Govt
- Entertaining
- Education
- Residential
- Commercial
- Education & Entertaining





## GAZA

LA. Abdulrahman Alymani



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LANDSCAPE ARCHITECTURE

LANDSCAPE ARCHITECTURE

THE SOUTH RIVERBED - JEDDAH

LANDSCAPE ARCHITECTURE

URBAN DESIGN

LANDSCAPE ARCHIT



# MASTER PLAN



### CONCEPT OF DEVELOPMENT

Redevelop this area through changed the thick residential area to multiuse area such as Commercial, Administrative) Therefor, the GREEN AXIS would shove this multiuse area. Also, would build seines museum and curative new pathway.

### 5 THE GREEN AXIS

### 4 ABDULLAH ALFESAL STADIUM

### CONCEPT OF DEVELOPMENT

Redeveolp the sirves around a stadium by providing green areas and connecting those areas with residential areas.

### CONCEPT OF DEVELOPMENT

Use this huge land to create central park to Jeddah city. Also provide some residential area to south Jeddah.

### CONCEPT OF DEVELOPMENT

Redevelop this area by providing pathways and bridges to find connection between seating area and industrial area. In addition, we work to create sculpture to tell store about the historical industry in Jeddah.

### 6 CENTRAL PARK

### 7 INDESTRaAL AREA

### CONCEPT OF DEVELOPMENT

Use this valuable area through inter the see water to the land and use this batches to optimum the income.

### 9 THE FACADES OF THE MARINE

### 8 NATURAL RESERVE

### CONCEPT OF DEVELOPMENT

Rehabilitation the wild live in this area and try to improve this area by creating a natural reserve. From our point of view, creating a way to mange and control this area will help this area to be better in the future. moreover, work to provide station fish farming will improve this area too.

### CONCEPT OF DEVELOPMENT

Redevelop this area by create a water museum and interactive Since path to teach people about the impartments of water

### 3 HISTORICAL AREA

### CONCEPT OF DEVELOPMENT

Redevelop this area and provide some resi- dent area and assume this are as rural area . moreover, provide green area, playground and seating area.

### 1 THE RURAL AREA

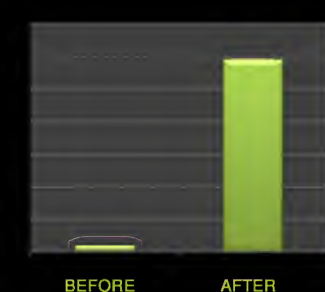
### 2 PRINCE FWAZE RESIDENTIAL AREA

### CONCEPT OF DEVELOPMENT

Use the Benefit from the riverbed to provide seating area and open space and recreational area.



LENGTH PATH WAY



PER CAPITA FOR GREEN AREA





THE SOUTH RIVERBED JEDDAH

SITE PLAN PART1





THE SOUTH RIVERBED JEDDAH

SITE PLAN PART2





### SITE DESIGN





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LANDSCAPE ARCHITECTURE

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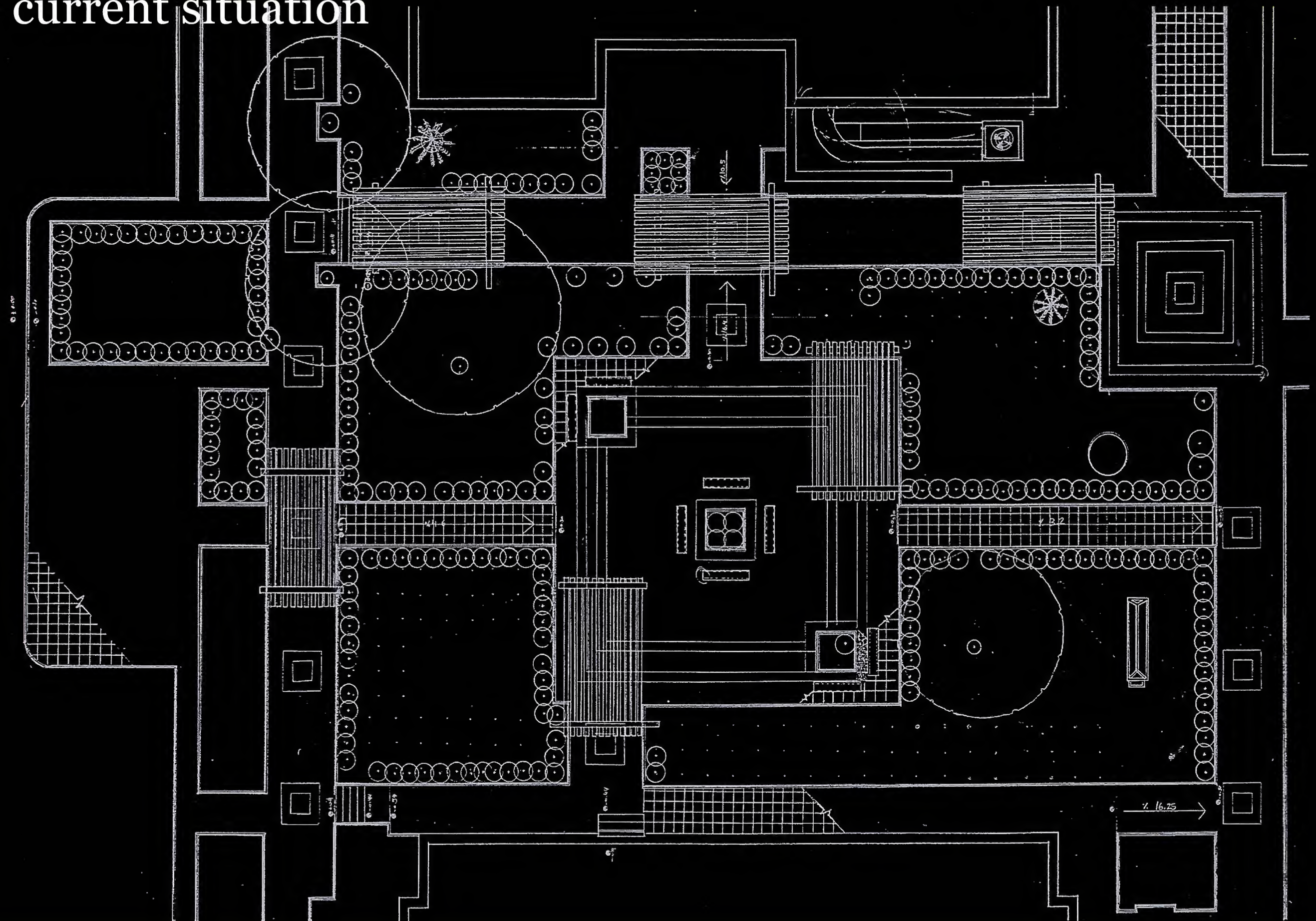
DESIGN PLAZA AT THE UNIVERSITY OF KING ABDULAZIZ

LANDSCAPE ARCHITECTURE

LANDSCAPE ARCHIT

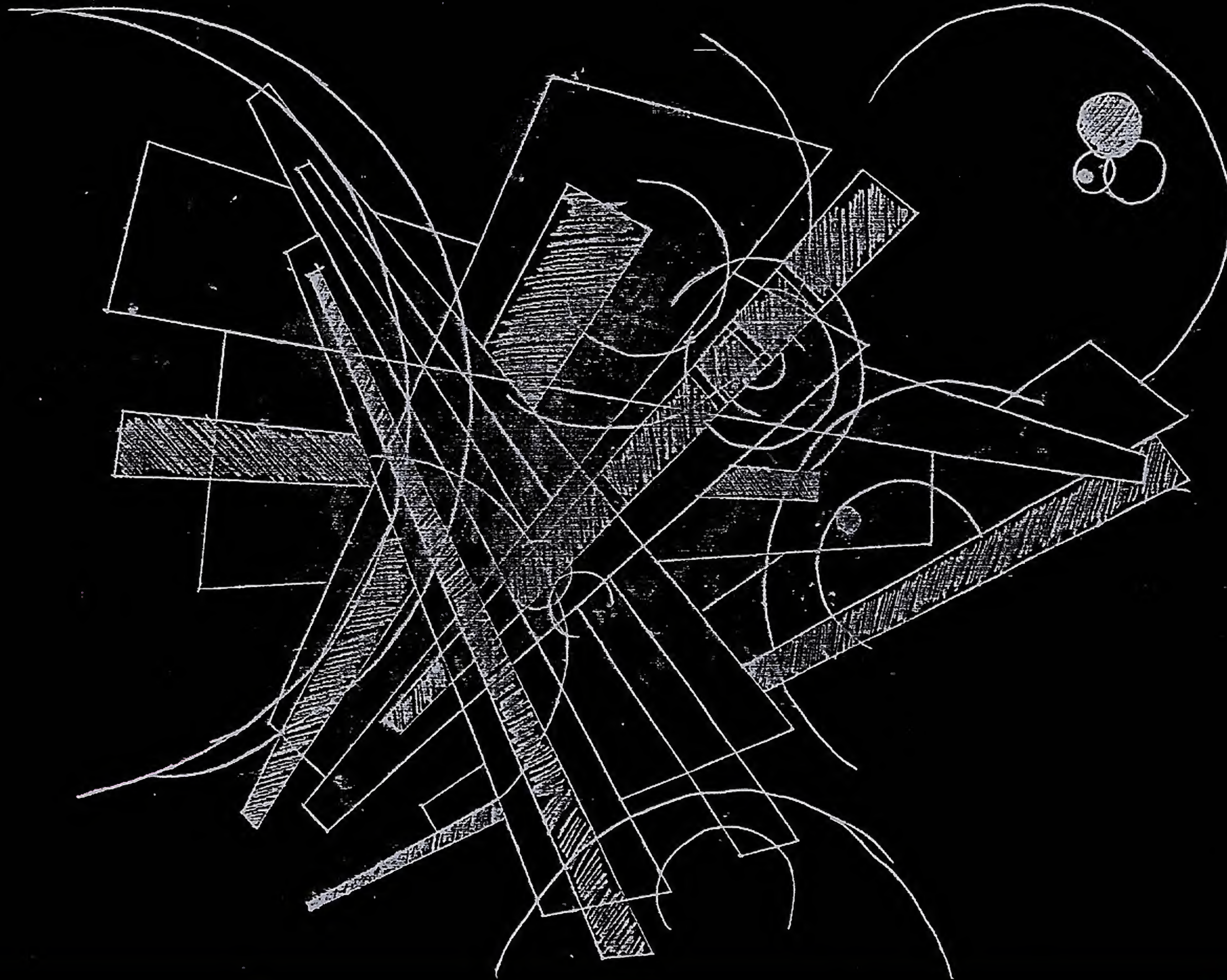


### The current situation



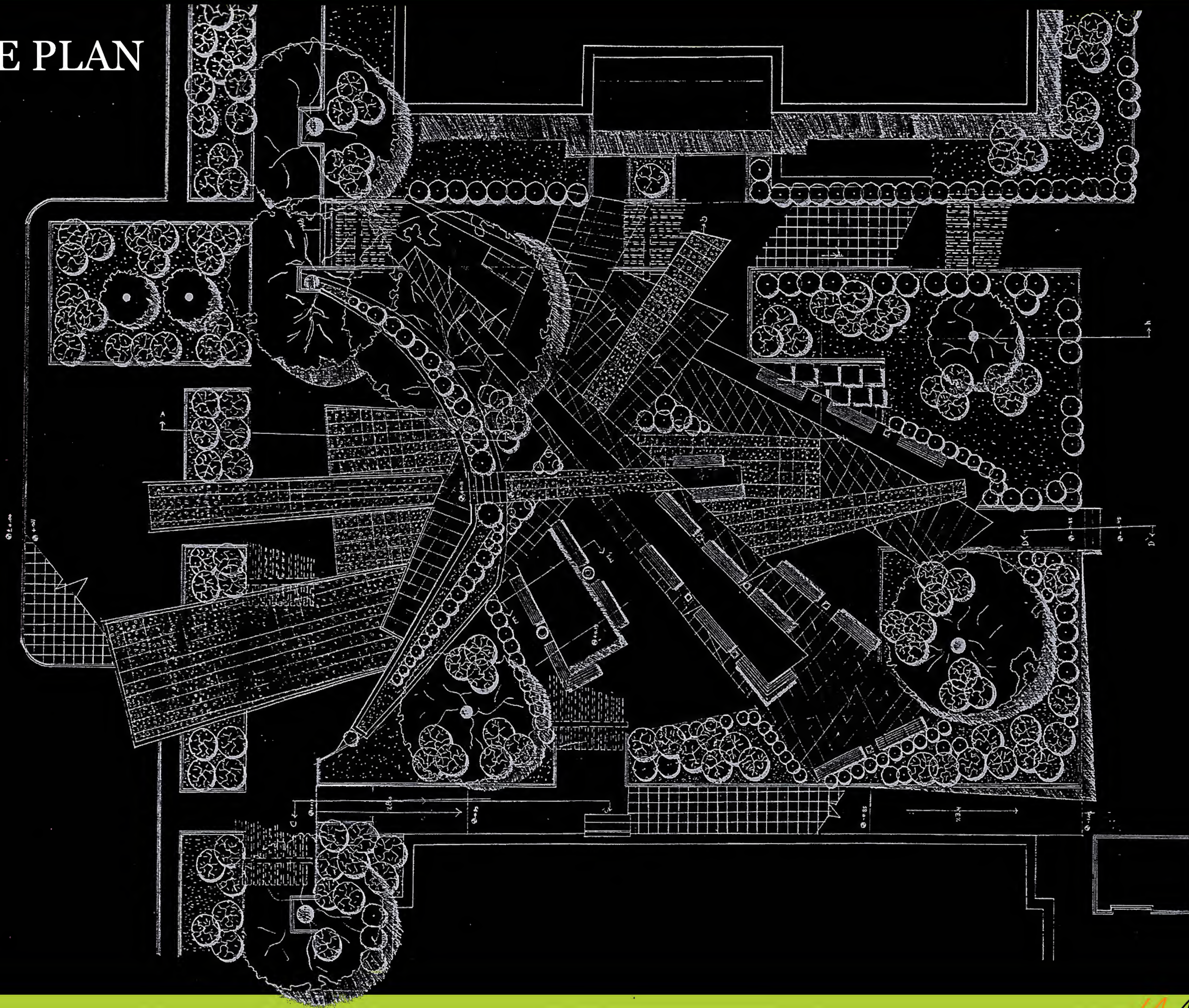


CONCEPTUAL





### SITE PLAN





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DESIGN THE INTERNAL SPACE OF THE FNACULTY OF ENVIRONMENTAL DESIGN

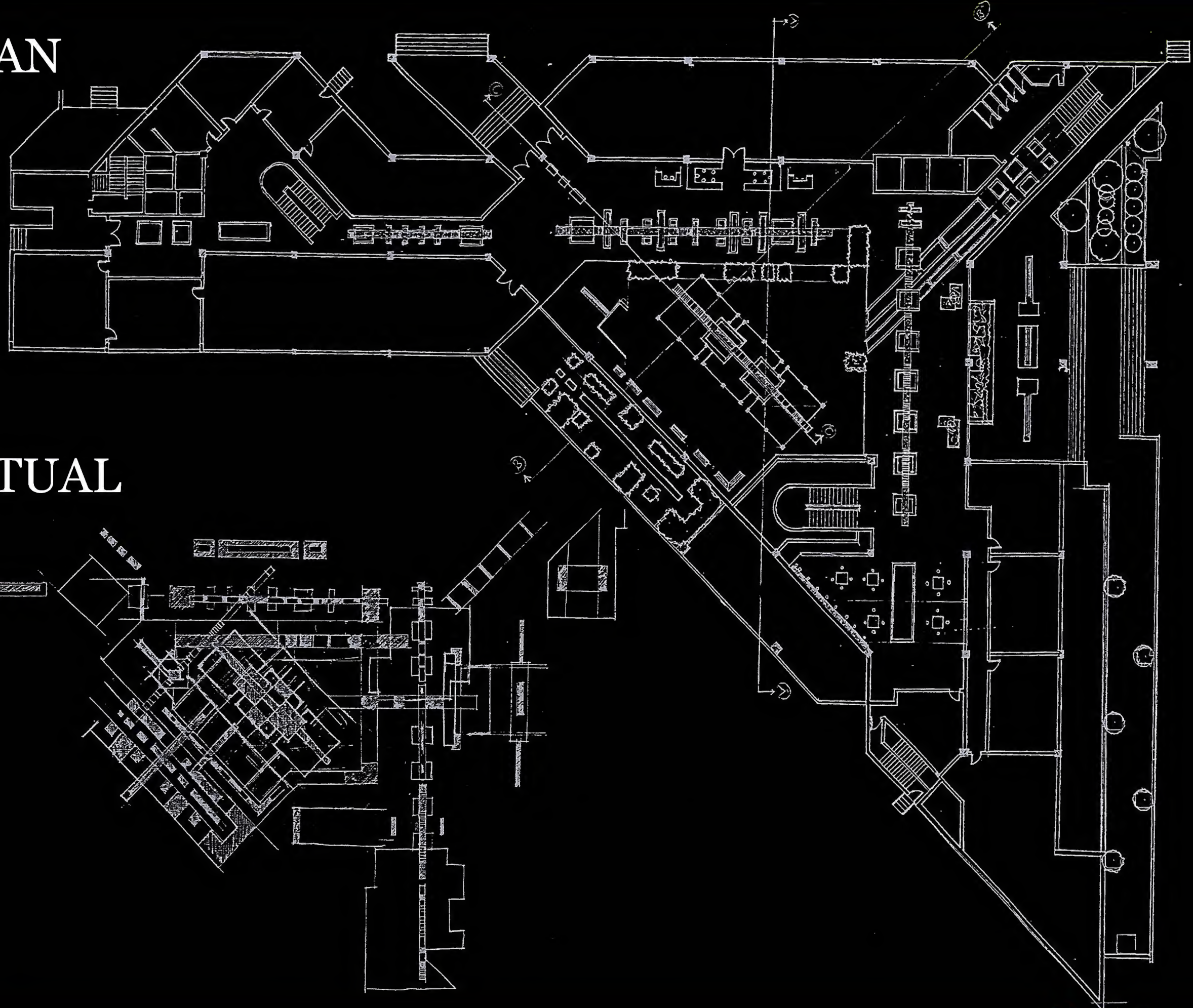
LANDSCAPE ARCHITECTURE

URBAN DESIGN

LANDSCAPE ARCHIT



#### SITE PLAN

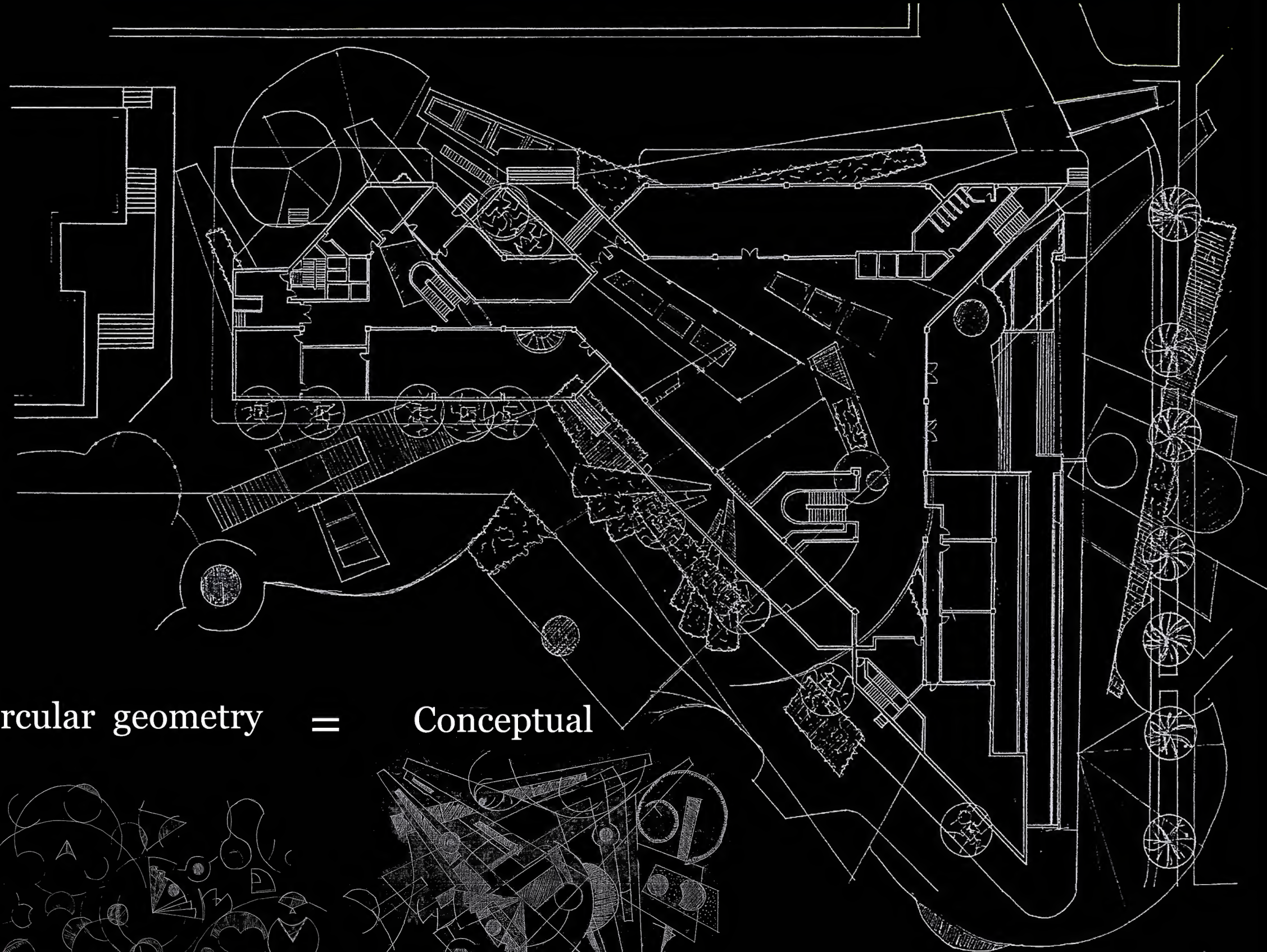


#### CONCEPTUAL

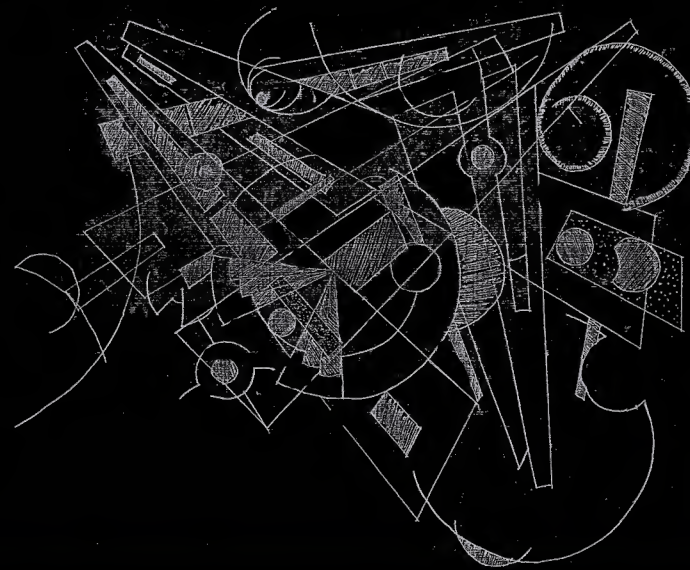
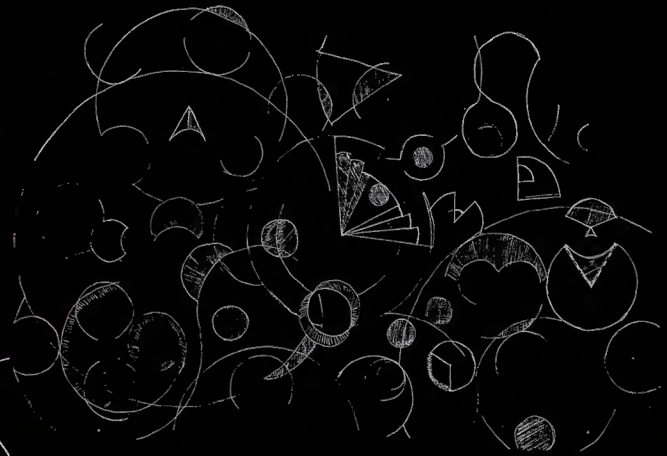
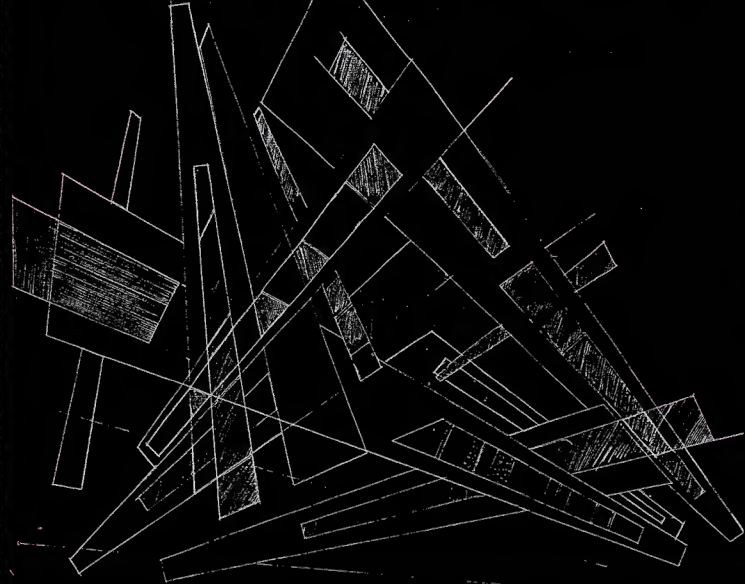




### SITE PLAN



Angular geometry + Circular geometry = Conceptual







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### MASTER PLAN

PLANTING MATERIAL

PAVING MATERIAL

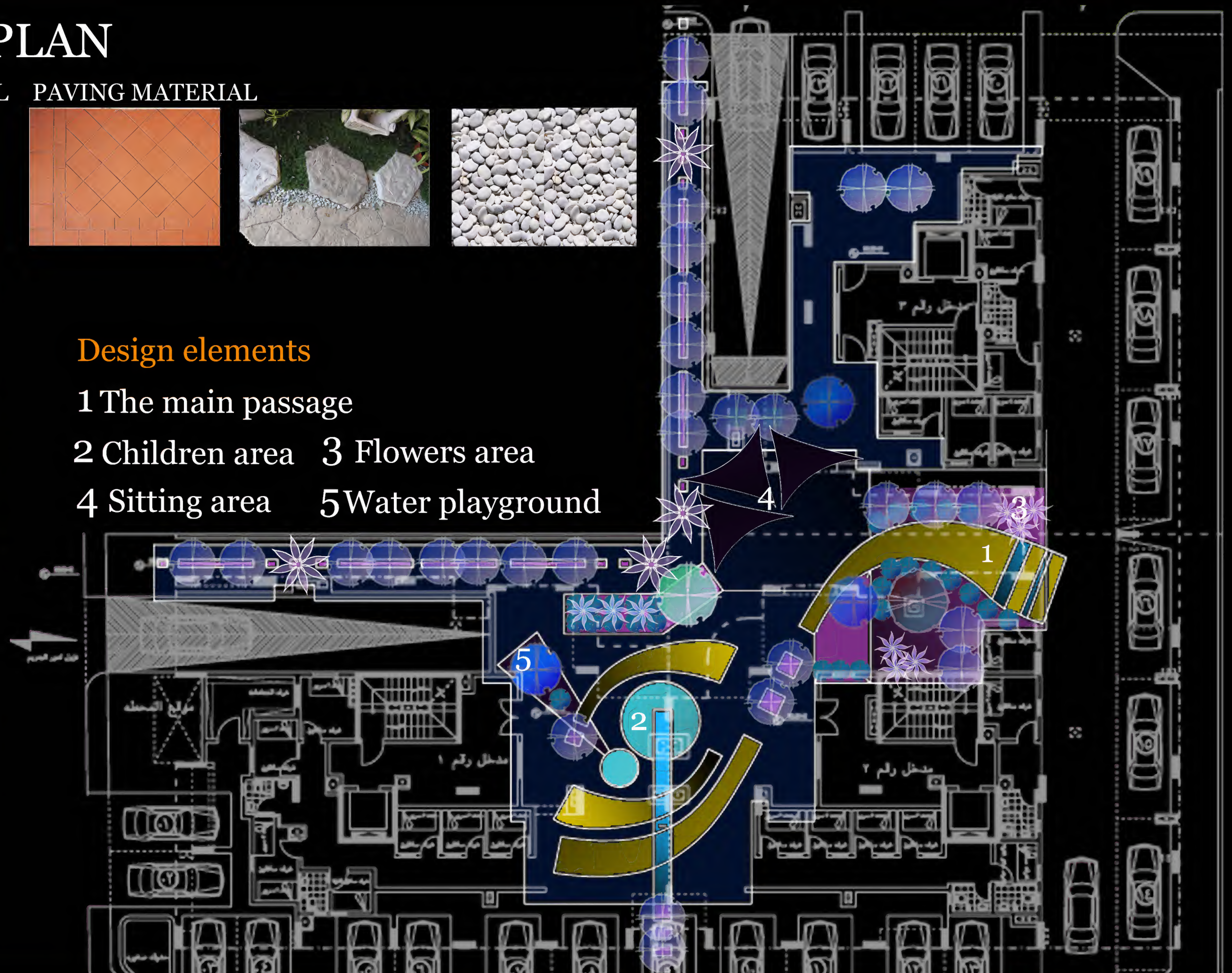


#### Design elements

1 The main passage

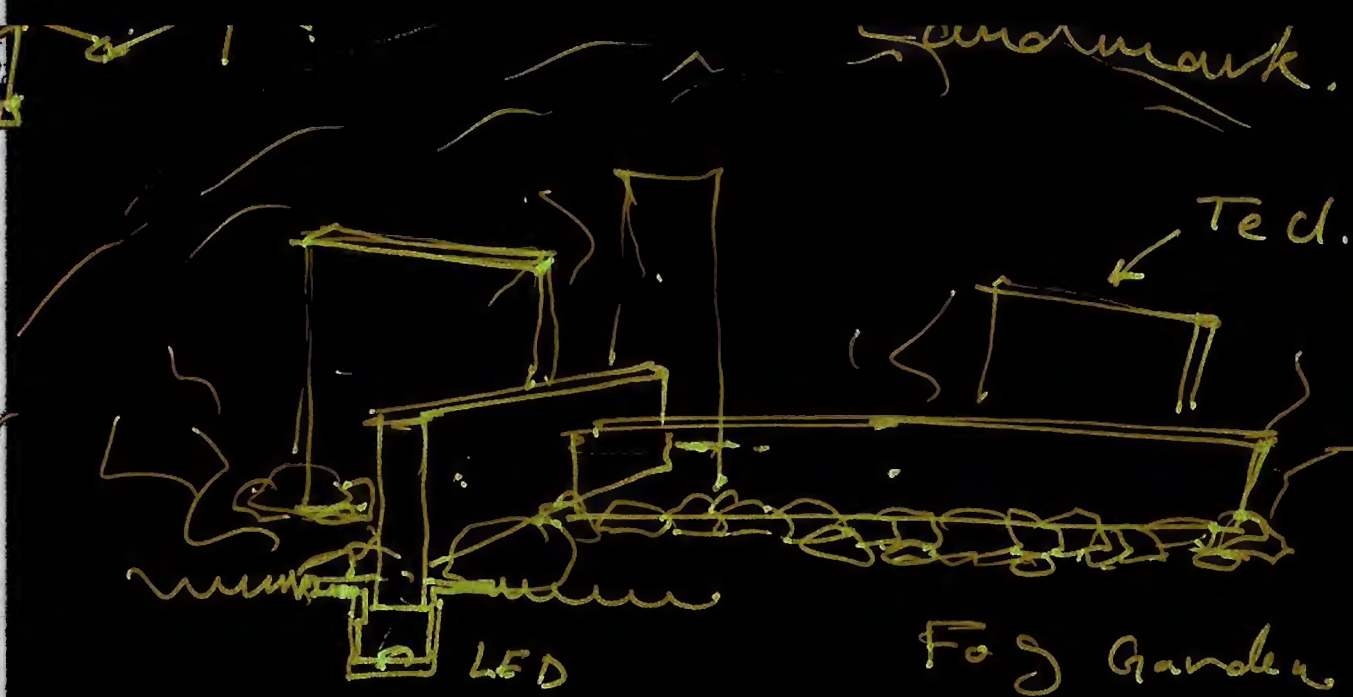
2 Children area    3 Flowers area

4 Sitting area    5 Water playground

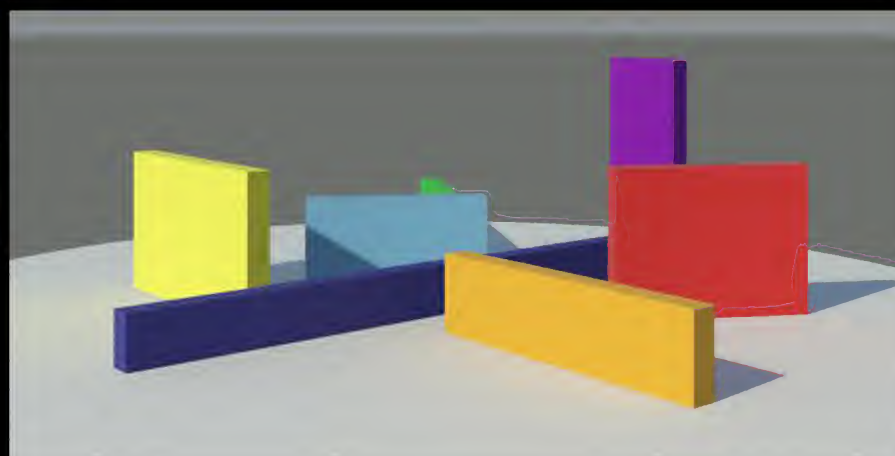
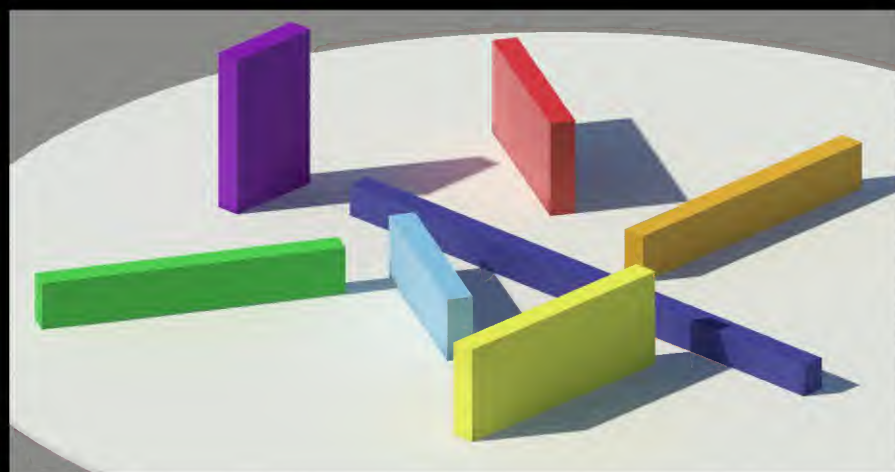




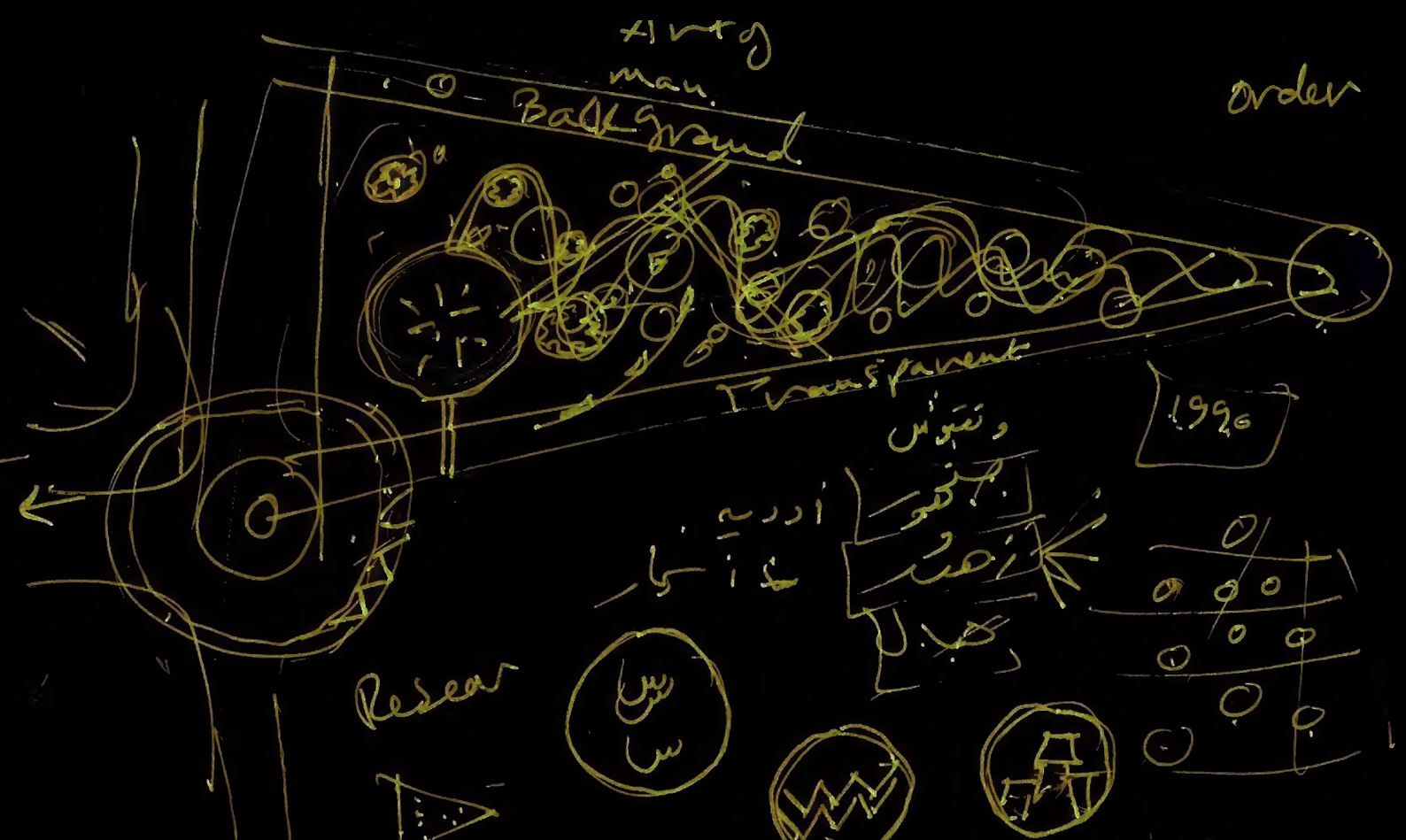
### DESIGN CONCEPT



Design concept






Site Plan





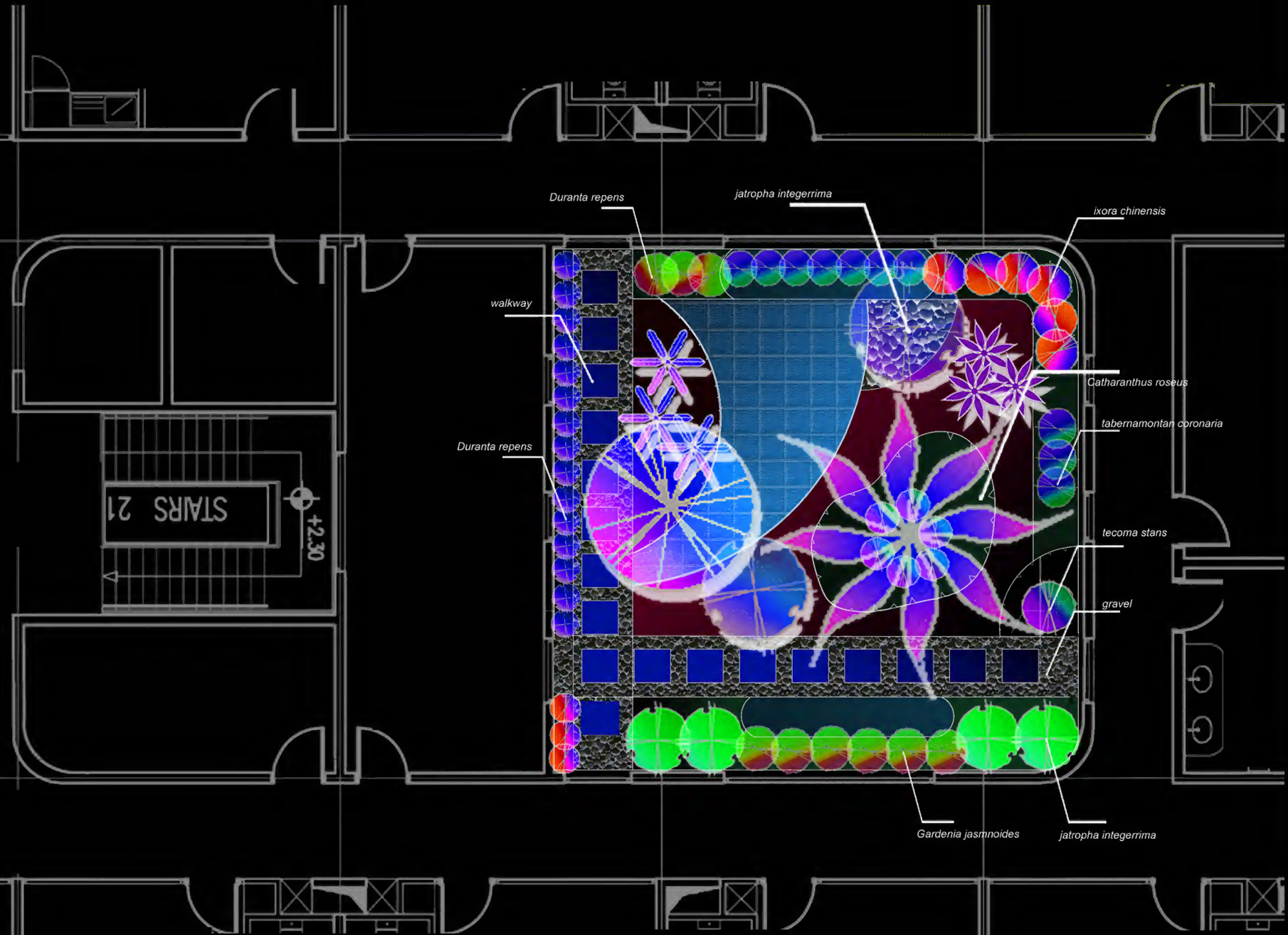
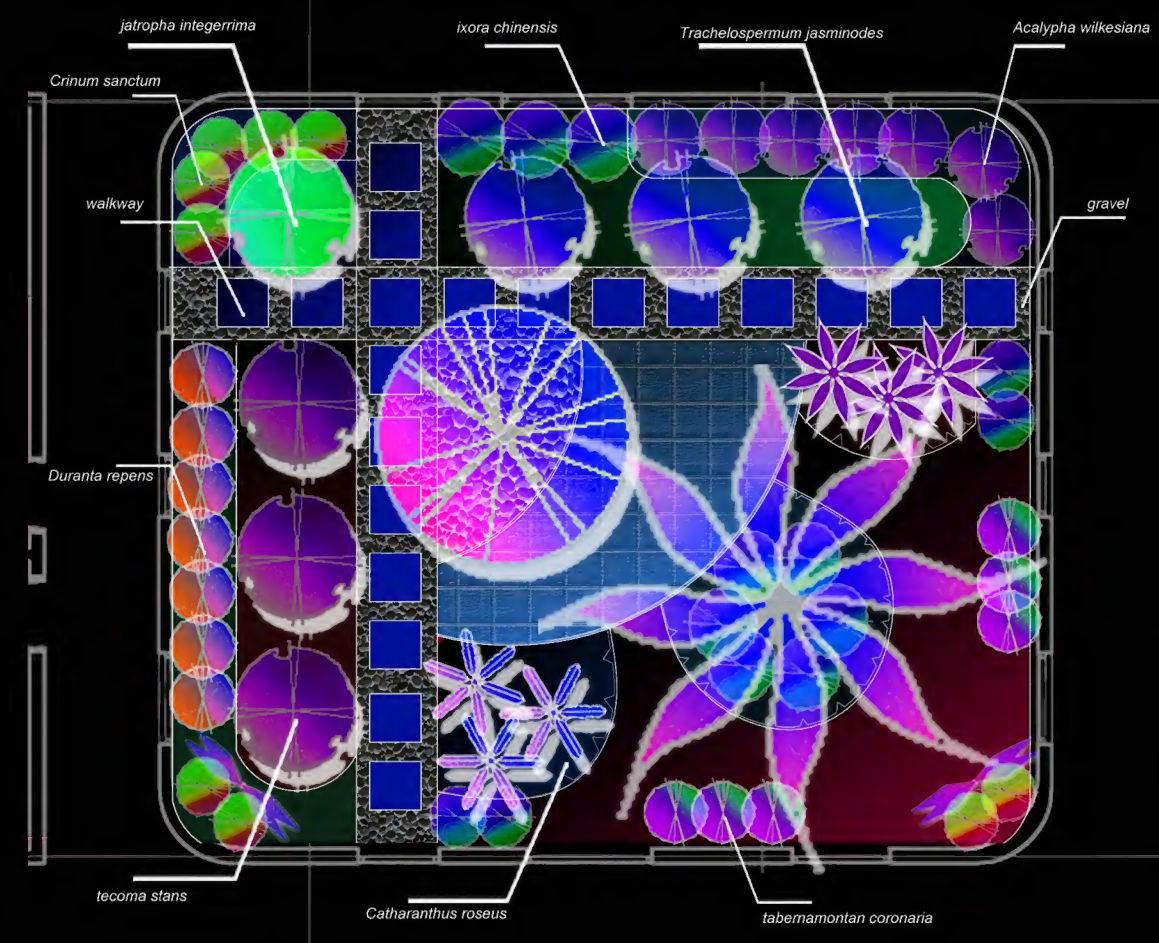


# SITE DESIGN

### LANDSCAPE LEGENDS

PALMS	
	Cocos nucifera
	Veitchia merrillii
	Areca catechu

TREES	
	Ravenea madagascariensis
	Plumeria rubra



### PLANTING MATERIAL

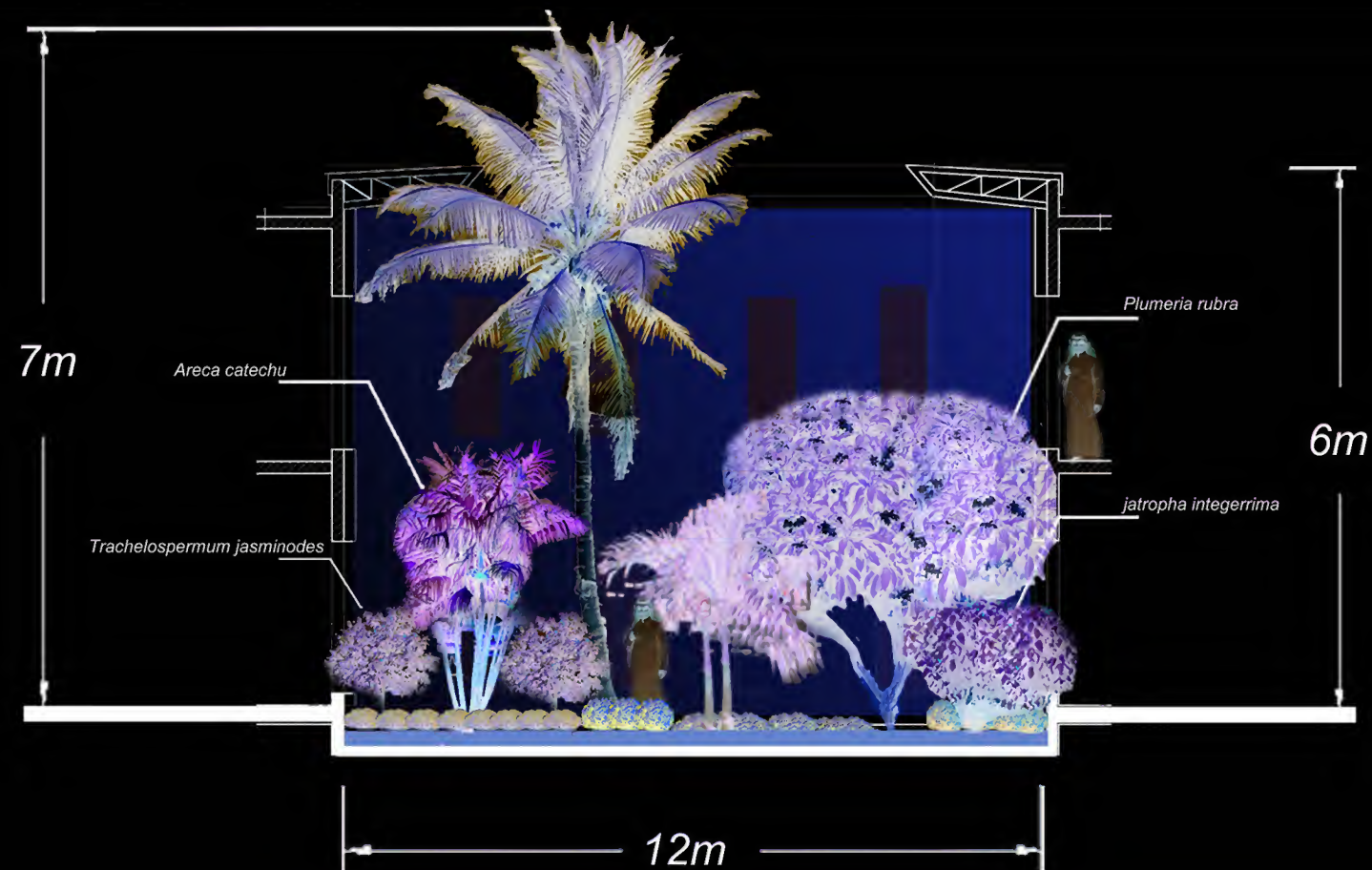


### PAVING MATERIAL



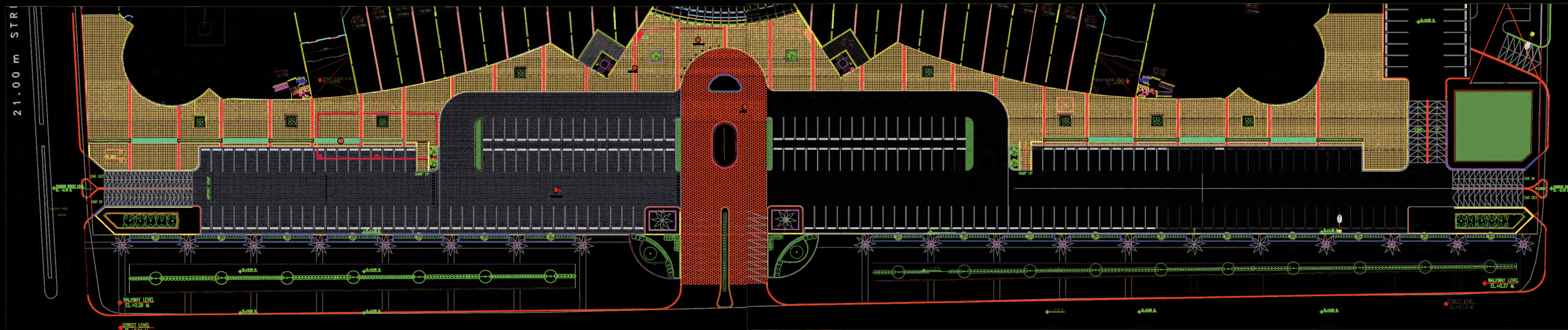


## SITE DESIGN

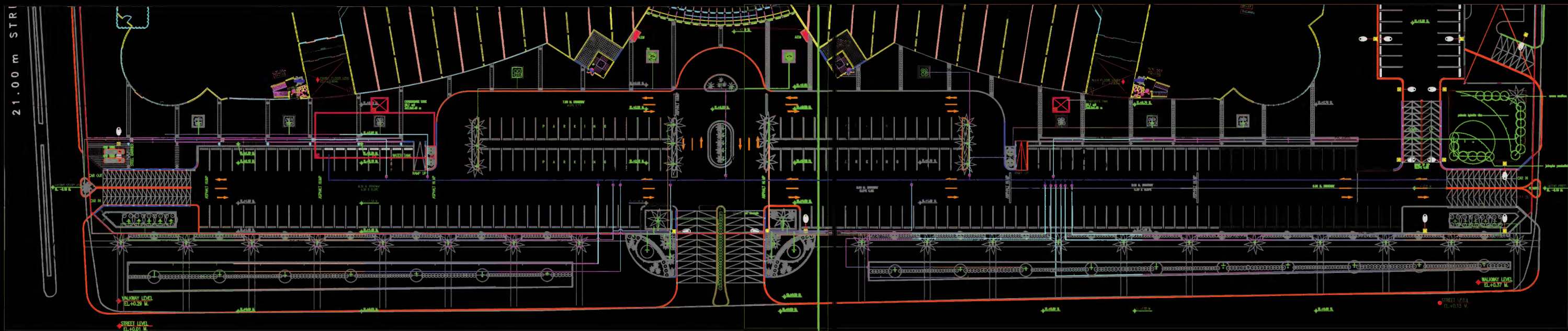




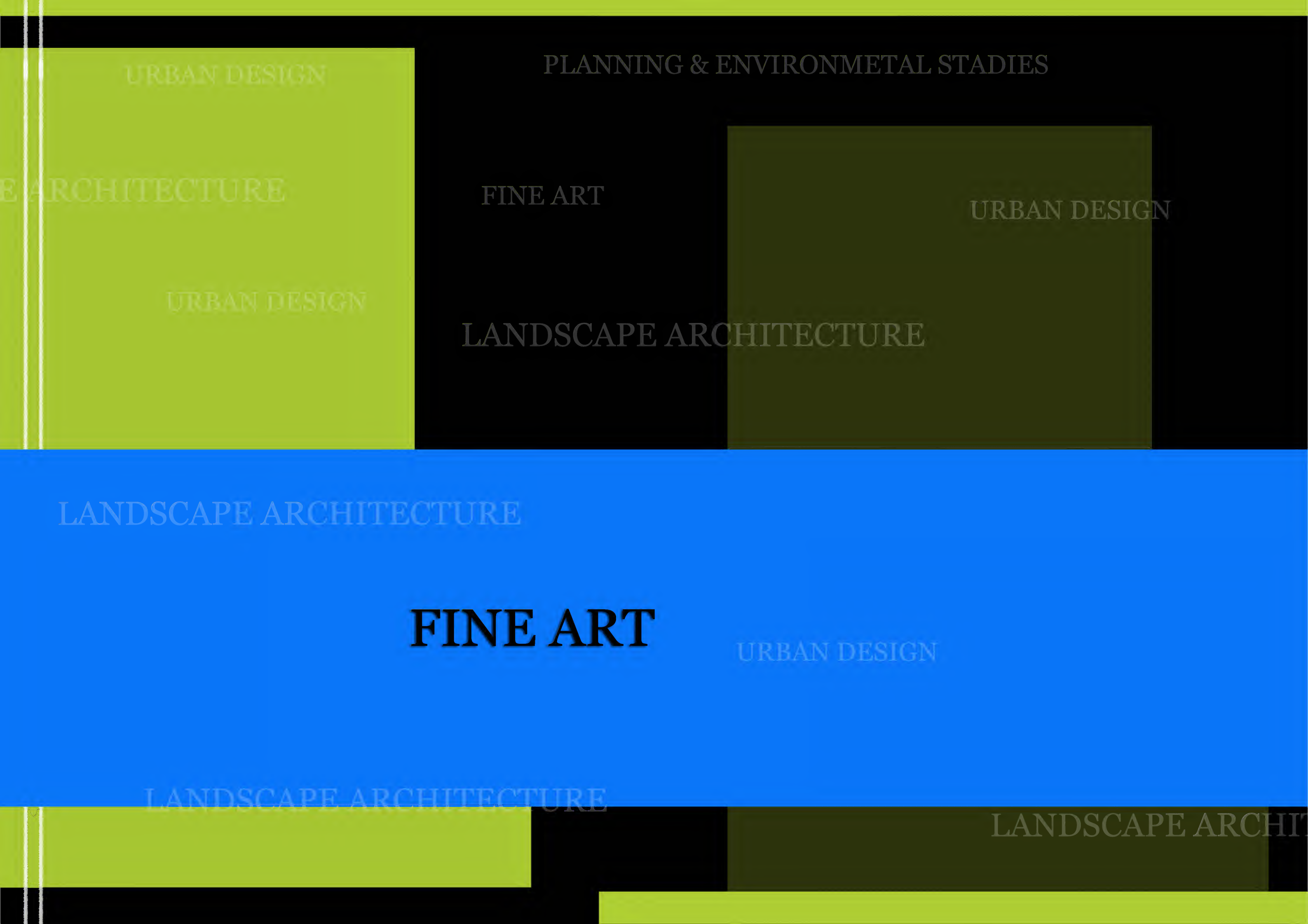
## Hardscape Plan



## Irrigation Plan







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**FINE ART**

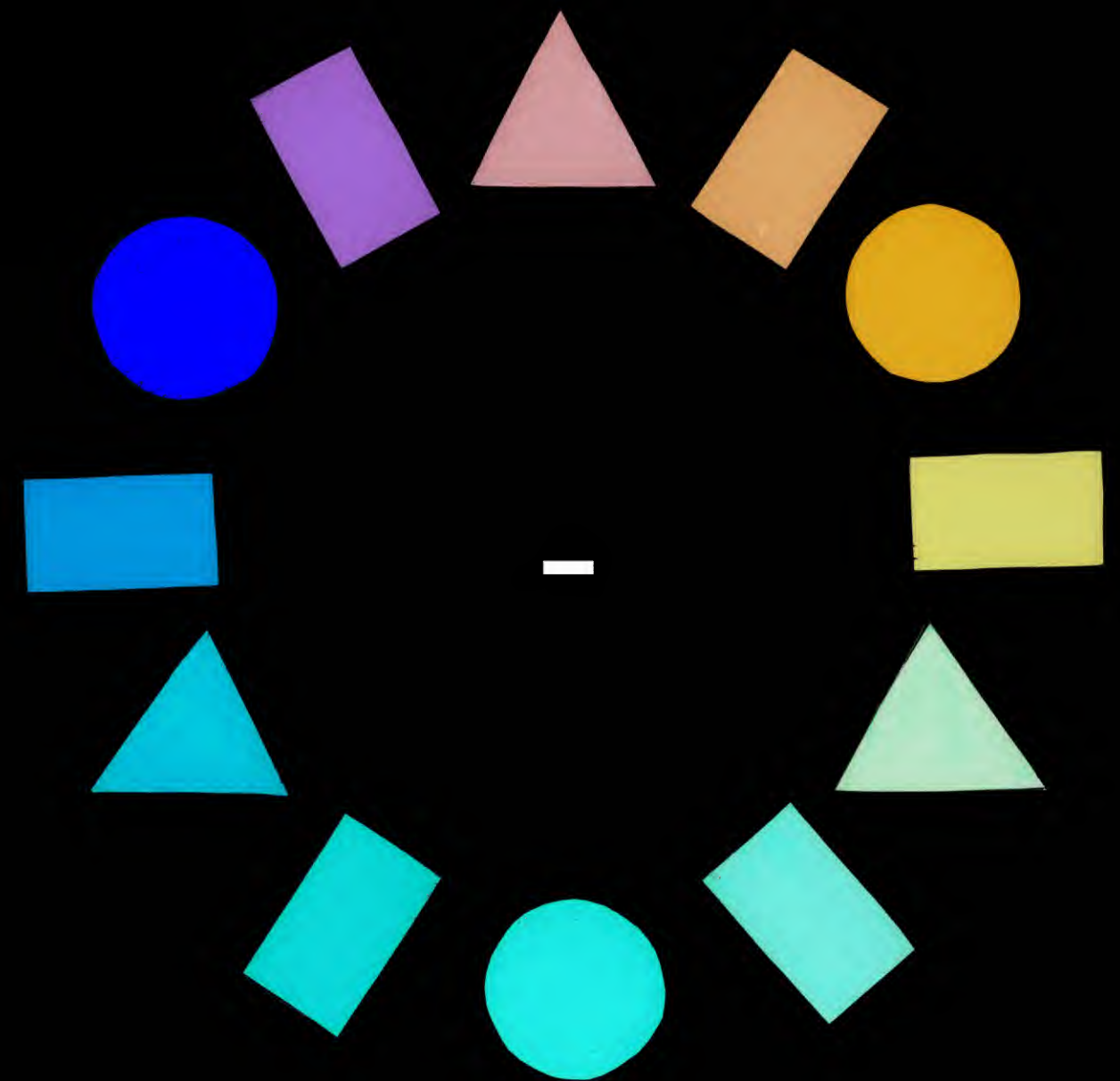
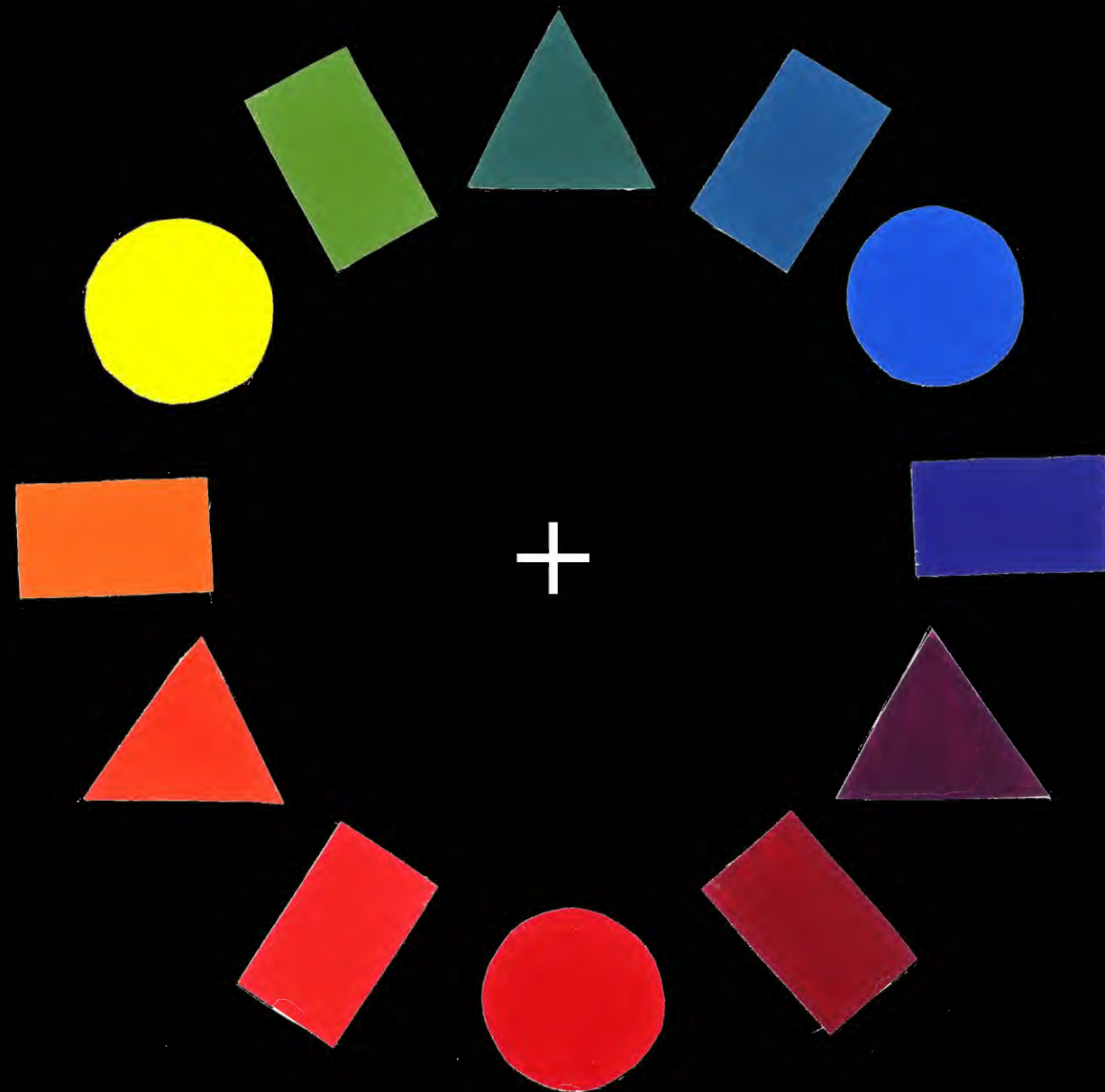
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LANDSCAPE ARCHITECTURE

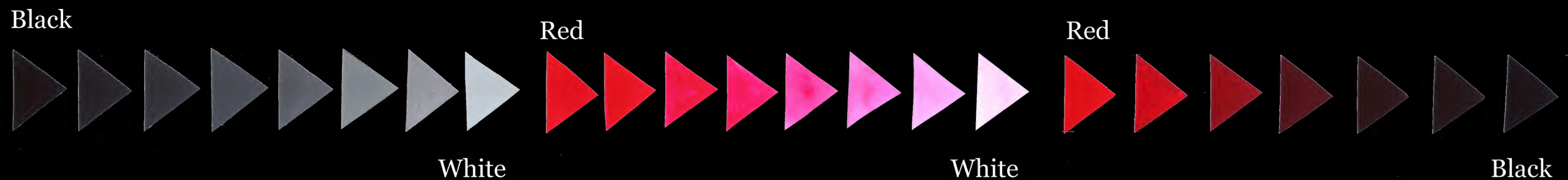
LANDSCAPE ARCHIT



### WATER COLOR



### Color gradation





# WATER COLOR



Architectural visualization by water color

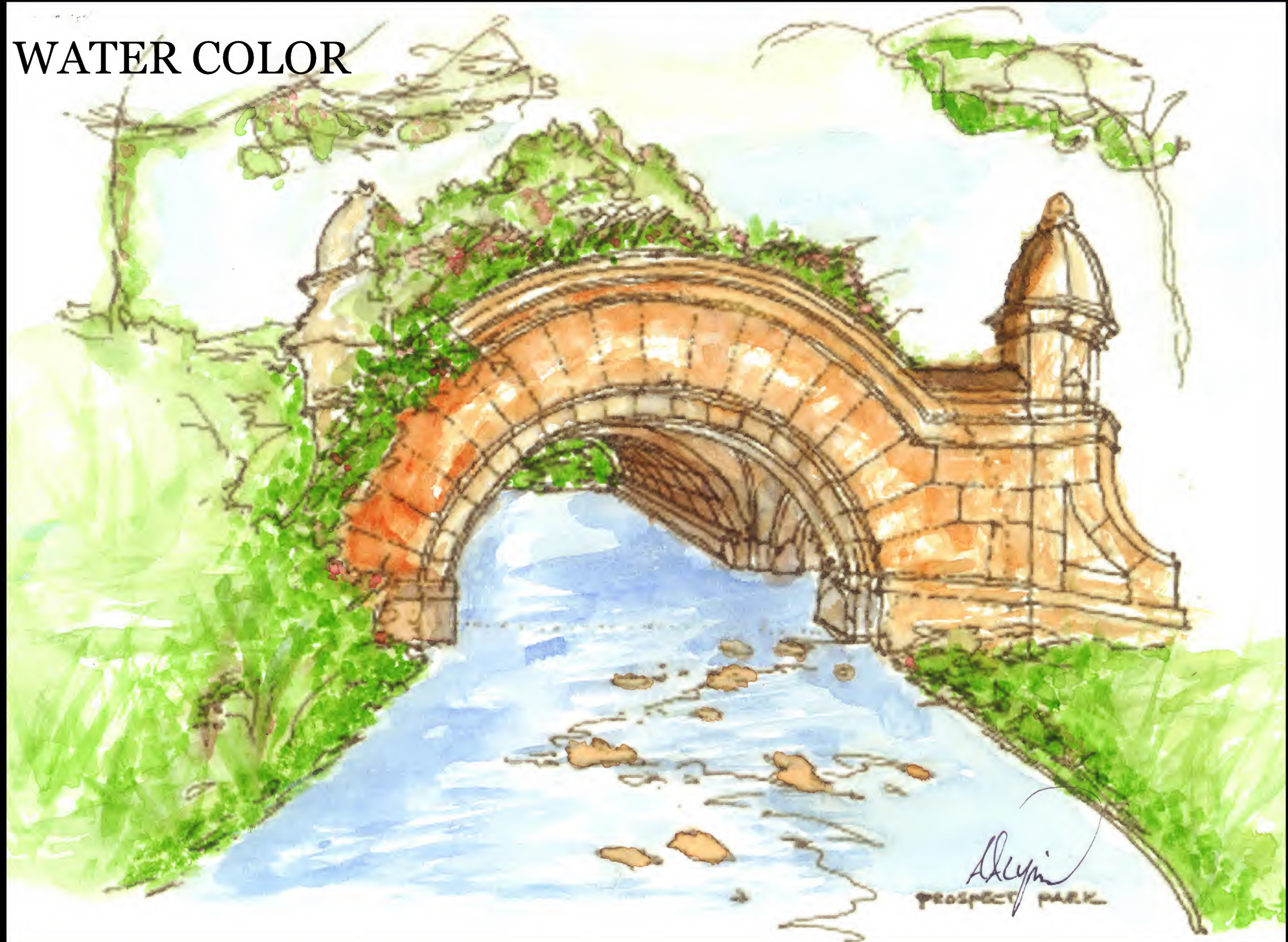


### WATER COLOR





### WATER COLOR





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**ABDULRHMAN ALYMANI**

LANDSCAPE ARCHITECTURE